



Environment Testing
TestAmerica

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ANALYTICAL REPORT

Eurofins TestAmerica, St. Louis
13715 Rider Trail North
Earth City, MO 63045
Tel: (314)298-8566

Laboratory Job ID: 160-36995-1

Client Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

For:

Wood E&I Solutions Inc
10940 White Rock Road Suite 190
Rancho Cordova, California 95670

Attn: Kent Parrish

Authorized for release by:

2/14/2020 11:35:25 AM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPLAMP Technical Specifications, applicable federal, state, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPLAMP. This Laboratory Report is confidential and is intended for the sole use of Eurofins TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The signature on the cover page extends to the case narrative and all the data and forms in the package. The Chain of Custody is included and is an integral part of this report.



Jayna Awalt
Project Manager II
2/14/2020 11:35:25 AM

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Definitions/Glossary

Client: Wood E&I Solutions Inc
Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36995-1

Qualifiers

Rad Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
D	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Wood E&I Solutions Inc
Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36995-1

Job ID: 160-36995-1

Laboratory: Eurofins TestAmerica, St. Louis

Narrative

CASE NARRATIVE

Client: Wood E&I Solutions Inc

Project: ACMS - Yerington OU-4B_OU-5_SOIL

Report Number: 160-36995-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Eurofins TestAmerica, St. Louis attests to the validity of the laboratory data generated by Eurofins TestAmerica facilities reported herein. All analyses performed by Eurofins TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. Eurofins TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results for Chemistry analyses are reported on an ""as received"" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client."

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

Manual Integrations were performed only when necessary and are in compliance with the laboratory's standard operating procedure. Detailed information can be found in the raw data section of the level IV report.

This laboratory report is confidential and is intended for the sole use of Eurofins TestAmerica and its client.

RECEIPT

The samples were received on 1/16/2020 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 0.3° C, 0.3° C and 0.4° C.

METALS (ICPMS)

Case Narrative

Client: Wood E&I Solutions Inc

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36995-1

Job ID: 160-36995-1 (Continued)

Laboratory: Eurofins TestAmerica, St. Louis (Continued)

Samples WRSB225_0-0.5 (160-36995-1), WRSB225_0.5-3 (160-36995-2), WRSB225_3-6 (160-36995-3), WRSB225_6-15 (160-36995-4), WRSB221_0-0.5 (160-36995-5), WRSB221_0.5-3 (160-36995-6), WRSB221_3-6 (160-36995-7), WRSB221_6-15 (160-36995-8), WRSB214_0-0.5 (160-36995-9), WRSB214_0.5-3 (160-36995-10), WRSB214_3-6 (160-36995-11), WRSB214_6-15 (160-36995-12), WRSB213_0-0.5 (160-36995-13), WRSB213_0.5-3 (160-36995-14), WRSB213_3-6 (160-36995-15), WRSB213_6-15 (160-36995-16), WRSB213_FD_6-15 (160-36995-17), WRSB216_0-0.5 (160-36995-18), WRSB216_0.5-3 (160-36995-19), WRSB216_3-6 (160-36995-20), WRSB216_6-15 (160-36995-21), WRSB208_136.5-141.5 (160-36995-22), WRSB208_146.5-151.5 (160-36995-23), WRSB215_0-0.5 (160-36995-24), WRSB215_0.5-3 (160-36995-25), WRSB215_3-6 (160-36995-26) and WRSB215_6-15 (160-36995-27) were analyzed for metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The samples were prepared on 01/29/2020 and analyzed on 02/08/2020, 02/10/2020 and 02/11/2020.

For ICPMS Metals, a 2X dilution was performed. This is a standard dilution that is performed by TestAmerica St. Louis on all samples analyzed by method SW-846 6020A. The dilution is performed in order to have the matrix of the samples (i.e. the concentration of acids) match the matrix of the standards used for calibration and instrument quality control purposes. The MDL studies analyzed by this method undergo the same 2X dilution, and all detection limits are based on this. As such, MDL's and RL's are not affected by the dilution.

The serial dilution performed for Thorium was outside control limits indicating potential matrix interference: (160-36995-A-10-A SD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS

Samples WRSB225_0-0.5 (160-36995-1), WRSB225_0.5-3 (160-36995-2), WRSB225_3-6 (160-36995-3), WRSB225_6-15 (160-36995-4), WRSB221_0-0.5 (160-36995-5), WRSB221_0.5-3 (160-36995-6), WRSB221_3-6 (160-36995-7), WRSB221_6-15 (160-36995-8), WRSB214_0-0.5 (160-36995-9), WRSB214_0.5-3 (160-36995-10), WRSB214_3-6 (160-36995-11), WRSB214_6-15 (160-36995-12), WRSB213_0-0.5 (160-36995-13), WRSB213_0.5-3 (160-36995-14), WRSB213_3-6 (160-36995-15), WRSB213_6-15 (160-36995-16), WRSB213_FD_6-15 (160-36995-17), WRSB216_0-0.5 (160-36995-18), WRSB216_0.5-3 (160-36995-19), WRSB216_3-6 (160-36995-20), WRSB216_6-15 (160-36995-21), WRSB208_136.5-141.5 (160-36995-22), WRSB208_146.5-151.5 (160-36995-23), WRSB215_0-0.5 (160-36995-24), WRSB215_0.5-3 (160-36995-25), WRSB215_3-6 (160-36995-26) and WRSB215_6-15 (160-36995-27) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 01/20/2020.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

RADIUM-226 BY GAMMA SPEC (21 DAY INGROWTH)

Samples WRSB225_0-0.5 (160-36995-1), WRSB225_0.5-3 (160-36995-2), WRSB225_3-6 (160-36995-3), WRSB225_6-15 (160-36995-4), WRSB221_0-0.5 (160-36995-5), WRSB221_0.5-3 (160-36995-6), WRSB221_3-6 (160-36995-7), WRSB221_6-15 (160-36995-8), WRSB214_0-0.5 (160-36995-9), WRSB214_0.5-3 (160-36995-10), WRSB214_3-6 (160-36995-11), WRSB214_6-15 (160-36995-12), WRSB213_0-0.5 (160-36995-13), WRSB213_0.5-3 (160-36995-14), WRSB213_3-6 (160-36995-15), WRSB213_6-15 (160-36995-16), WRSB213_FD_6-15 (160-36995-17), WRSB216_0-0.5 (160-36995-18), WRSB216_0.5-3 (160-36995-19), WRSB216_3-6 (160-36995-20), WRSB216_6-15 (160-36995-21), WRSB208_136.5-141.5 (160-36995-22), WRSB208_146.5-151.5 (160-36995-23), WRSB215_0-0.5 (160-36995-24), WRSB215_0.5-3 (160-36995-25), WRSB215_3-6 (160-36995-26) and WRSB215_6-15 (160-36995-27) were analyzed for Radium-226 by gamma spec (21 day ingrowth) in accordance with EPA 901.1. The samples were dried on 01/16/2020, prepared on 01/20/2020 and analyzed on 02/10/2020.

Many isotopes requested for analysis do not have any gamma emissions, or the gamma emissions they do have are very poor. Often, such analytes are reported by gamma spectrometry assuming secular equilibrium with a longer-lived parent. The client should ensure that such inference is acceptable for their sample based upon process knowledge. The following assumptions were made for this report:

Inferred from Reported to Analyte

Th-234	Pa-234
Th-234	U-238
Pb-210	Po-210
Pb-210	Bi-210
Cs-137	Ba-137m
Pb-212	Po-216
Xe-131m	Xe-131
Sb-125	Te-125m
Ag-108m	Ag-108

Case Narrative

Client: Wood E&I Solutions Inc

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36995-1

Job ID: 160-36995-1 (Continued)

Laboratory: Eurofins TestAmerica, St. Louis (Continued)

Rh-106	Ru-106
Pb-212	Th-228
Pb-212	Ra-224
U-235	Th-231
Ac-228	Th-232
Ac-228	Ra-228
Th-227	Ra-223
Th-227	Ac-227
Th-227	Bi-211
Th-227	Pb-211
Bi-214	Ra-226

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: Wood E&I Solutions Inc

Job ID: 160-36995-1

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Client Sample ID: WRSB225_0-0.5

Lab Sample ID: 160-36995-1

Matrix: Solid

Date Collected: 01/09/20 13:27

Date Received: 01/16/20 09:10

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-226	1.35		0.211	0.252	1.00	0.188	pCi/g	01/20/20 10:58	02/10/20 19:10	1
Radium-228	1.33		0.297	0.326	1.00	0.225	pCi/g	01/20/20 10:58	02/10/20 19:10	1

Client Sample ID: WRSB225_0-0.5

Lab Sample ID: 160-36995-1

Matrix: Solid

Date Collected: 01/09/20 13:27

Percent Solids: 91.0

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
							Uncert.	Uncert.	
Thorium	6.7		0.20	0.089	mg/Kg	⊗	01/29/20 11:13	02/10/20 21:20	2
Uranium	2.5		0.098	0.039	mg/Kg	⊗	01/29/20 11:13	02/10/20 21:20	2

Client Sample ID: WRSB225_0.5-3

Lab Sample ID: 160-36995-2

Matrix: Solid

Date Received: 01/16/20 09:10

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-226	1.14		0.199	0.232	1.00	0.150	pCi/g	01/20/20 10:58	02/10/20 18:49	1
Radium-228	1.33		0.219	0.258	1.00	0.154	pCi/g	01/20/20 10:58	02/10/20 18:49	1

Client Sample ID: WRSB225_0.5-3

Lab Sample ID: 160-36995-2

Matrix: Solid

Percent Solids: 94.3

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
							Uncert.	Uncert.	
Thorium	6.1		0.19	0.084	mg/Kg	⊗	01/29/20 11:13	02/10/20 21:27	2
Uranium	1.3		0.094	0.038	mg/Kg	⊗	01/29/20 11:13	02/10/20 21:27	2

Client Sample ID: WRSB225_3-6

Lab Sample ID: 160-36995-3

Matrix: Solid

Date Received: 01/16/20 09:10

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-226	1.00		0.221	0.244	1.00	0.177	pCi/g	01/20/20 10:58	02/10/20 18:50	1
Radium-228	1.40		0.283	0.317	1.00	0.109	pCi/g	01/20/20 10:58	02/10/20 18:50	1

Client Sample ID: WRSB225_3-6

Lab Sample ID: 160-36995-3

Matrix: Solid

Percent Solids: 94.2

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
							Uncert.	Uncert.	
Thorium	6.1		0.19	0.085	mg/Kg	⊗	01/29/20 11:13	02/10/20 21:34	2

Eurofins TestAmerica, St. Louis

Client Sample Results

Client: Wood E&I Solutions Inc

Job ID: 160-36995-1

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Client Sample ID: WRSB225_3-6

Lab Sample ID: 160-36995-3

Date Collected: 01/09/20 13:42

Matrix: Solid

Date Received: 01/16/20 09:10

Percent Solids: 94.2

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	1.2		0.094	0.038	mg/Kg	⌚	01/29/20 11:13	02/10/20 21:34	2

Client Sample ID: WRSB225_6-15

Lab Sample ID: 160-36995-4

Date Collected: 01/09/20 13:49

Matrix: Solid

Date Received: 01/16/20 09:10

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	1.18		0.200	0.234	1.00	0.208	pCi/g	01/20/20 10:58	02/10/20 18:51	1
Radium-228	1.29		0.294	0.322	1.00	0.235	pCi/g	01/20/20 10:58	02/10/20 18:51	1

Client Sample ID: WRSB225_6-15

Lab Sample ID: 160-36995-4

Date Collected: 01/09/20 13:49

Matrix: Solid

Date Received: 01/16/20 09:10

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	7.4		0.18	0.083	mg/Kg	⌚	01/29/20 11:13	02/10/20 21:41	2
Uranium	1.6		0.092	0.037	mg/Kg	⌚	01/29/20 11:13	02/10/20 21:41	2

Client Sample ID: WRSB221_0-0.5

Lab Sample ID: 160-36995-5

Date Collected: 01/10/20 09:12

Matrix: Solid

Date Received: 01/16/20 09:10

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	1.15		0.195	0.229	1.00	0.137	pCi/g	01/20/20 10:58	02/10/20 18:53	1
Radium-228	1.41		0.294	0.328	1.00	0.170	pCi/g	01/20/20 10:58	02/10/20 18:53	1

Client Sample ID: WRSB221_0-0.5

Lab Sample ID: 160-36995-5

Date Collected: 01/10/20 09:12

Matrix: Solid

Date Received: 01/16/20 09:10

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	6.2		0.20	0.089	mg/Kg	⌚	01/29/20 11:13	02/10/20 21:47	2
Uranium	1.2		0.099	0.040	mg/Kg	⌚	01/29/20 11:13	02/10/20 21:47	2

Client Sample ID: WRSB221_0.5-3

Lab Sample ID: 160-36995-6

Date Collected: 01/10/20 09:17

Matrix: Solid

Date Received: 01/16/20 09:10

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	1.33		0.210	0.260	1.00	0.130	pCi/g	01/20/20 10:58	02/10/20 19:11	1
Radium-228	1.36		0.356	0.389	1.00	0.248	pCi/g	01/20/20 10:58	02/10/20 19:11	1

Eurofins TestAmerica, St. Louis

Client Sample Results

Client: Wood E&I Solutions Inc

Job ID: 160-36995-1

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Client Sample ID: WRSB221_0.5-3

Lab Sample ID: 160-36995-6

Date Collected: 01/10/20 09:17

Matrix: Solid

Date Received: 01/16/20 09:10

Percent Solids: 96.5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	8.6		0.19	0.084	mg/Kg	⌚	01/29/20 11:13	02/10/20 21:54	2
Uranium	2.4		0.094	0.037	mg/Kg	⌚	01/29/20 11:13	02/10/20 21:54	2

Client Sample ID: WRSB221_3-6

Lab Sample ID: 160-36995-7

Date Collected: 01/10/20 09:28

Matrix: Solid

Date Received: 01/16/20 09:10

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	1.37		0.241	0.280	1.00	0.169	pCi/g	01/20/20 10:58	02/10/20 20:12	1
Radium-228	1.11		0.242	0.267	1.00	0.236	pCi/g	01/20/20 10:58	02/10/20 20:12	1

Client Sample ID: WRSB221_3-6

Lab Sample ID: 160-36995-7

Date Collected: 01/10/20 09:28

Matrix: Solid

Date Received: 01/16/20 09:10

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	7.8		0.19	0.084	mg/Kg	⌚	01/29/20 11:13	02/10/20 22:01	2
Uranium	1.9		0.094	0.038	mg/Kg	⌚	01/29/20 11:13	02/10/20 22:01	2

Client Sample ID: WRSB221_6-15

Lab Sample ID: 160-36995-8

Date Collected: 01/10/20 09:35

Matrix: Solid

Date Received: 01/16/20 09:10

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	1.16		0.178	0.215	1.00	0.128	pCi/g	01/20/20 10:58	02/10/20 20:08	1
Radium-228	1.36		0.206	0.248	1.00	0.186	pCi/g	01/20/20 10:58	02/10/20 20:08	1

Client Sample ID: WRSB221_6-15

Lab Sample ID: 160-36995-8

Date Collected: 01/10/20 09:35

Matrix: Solid

Date Received: 01/16/20 09:10

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	7.3		0.21	0.093	mg/Kg	⌚	01/29/20 11:13	02/10/20 22:28	2
Uranium	1.8		0.10	0.041	mg/Kg	⌚	01/29/20 11:13	02/10/20 22:28	2

Client Sample ID: WRSB214_0-0.5

Lab Sample ID: 160-36995-9

Date Collected: 01/10/20 10:40

Matrix: Solid

Date Received: 01/16/20 09:10

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	1.29		0.197	0.237	1.00	0.161	pCi/g	01/20/20 10:58	02/10/20 20:08	1

Eurofins TestAmerica, St. Louis

Client Sample Results

Client: Wood E&I Solutions Inc
 Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36995-1

Client Sample ID: WRSB214_0-0.5

Lab Sample ID: 160-36995-9

Matrix: Solid

Date Collected: 01/10/20 10:40

Date Received: 01/16/20 09:10

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	1.79		0.263	0.320	1.00	0.171	pCi/g	01/20/20 10:58	02/10/20 20:08	1

Client Sample ID: WRSB214_0-0.5

Lab Sample ID: 160-36995-9

Matrix: Solid

Date Collected: 01/10/20 10:40

Date Received: 01/16/20 09:10

Percent Solids: 95.0

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	7.5		0.20	0.090	mg/Kg	⌚	01/29/20 11:13	02/10/20 22:34	2
Uranium	1.4		0.10	0.040	mg/Kg	⌚	01/29/20 11:13	02/10/20 22:34	2

Client Sample ID: WRSB214_0.5-3

Lab Sample ID: 160-36995-10

Matrix: Solid

Date Collected: 01/10/20 10:49

Date Received: 01/16/20 09:10

Percent Solids: 95.0

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	1.31		0.200	0.242	1.00	0.176	pCi/g	01/20/20 10:58	02/10/20 20:09	1
Radium-228	1.59		0.333	0.371	1.00	0.224	pCi/g	01/20/20 10:58	02/10/20 20:09	1

Client Sample ID: WRSB214_0.5-3

Lab Sample ID: 160-36995-10

Matrix: Solid

Date Collected: 01/10/20 10:49

Date Received: 01/16/20 09:10

Percent Solids: 94.4

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	6.6		0.21	0.093	mg/Kg	⌚	01/29/20 11:13	02/10/20 22:41	2
Uranium	1.4		0.10	0.042	mg/Kg	⌚	01/29/20 11:13	02/10/20 22:41	2

Client Sample ID: WRSB214_3-6

Lab Sample ID: 160-36995-11

Matrix: Solid

Date Collected: 01/10/20 10:58

Date Received: 01/16/20 09:10

Percent Solids: 95.0

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	1.33		0.231	0.269	1.00	0.168	pCi/g	01/20/20 10:58	02/10/20 20:10	1
Radium-228	1.56		0.300	0.340	1.00	0.185	pCi/g	01/20/20 10:58	02/10/20 20:10	1

Client Sample ID: WRSB214_3-6

Lab Sample ID: 160-36995-11

Matrix: Solid

Date Collected: 01/10/20 10:58

Date Received: 01/16/20 09:10

Percent Solids: 95.6

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	7.5		0.18	0.082	mg/Kg	⌚	01/29/20 11:13	02/10/20 23:15	2
Uranium	1.2		0.091	0.036	mg/Kg	⌚	01/29/20 11:13	02/10/20 23:15	2

Eurofins TestAmerica, St. Louis

Client Sample Results

Client: Wood E&I Solutions Inc

Job ID: 160-36995-1

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Client Sample ID: WRSB214_6-15

Lab Sample ID: 160-36995-12

Date Collected: 01/10/20 11:08

Matrix: Solid

Date Received: 01/16/20 09:10

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-226	1.27		0.190	0.231	1.00	0.127	pCi/g	01/20/20 10:58	02/10/20 20:11	1
Radium-228	1.34		0.242	0.278	1.00	0.219	pCi/g	01/20/20 10:58	02/10/20 20:11	1

Client Sample ID: WRSB214_6-15

Lab Sample ID: 160-36995-12

Date Collected: 01/10/20 11:08

Matrix: Solid

Date Received: 01/16/20 09:10

Percent Solids: 95.4

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
							Uncert.	Uncert.	
Thorium	9.6		0.19	0.084	mg/Kg	⊗	01/29/20 11:13	02/10/20 23:22	2
Uranium	1.3		0.093	0.037	mg/Kg	⊗	01/29/20 11:13	02/10/20 23:22	2

Client Sample ID: WRSB213_0-0.5

Lab Sample ID: 160-36995-13

Date Collected: 01/13/20 14:09

Matrix: Solid

Date Received: 01/16/20 09:10

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-226	1.24		0.177	0.219	1.00	0.151	pCi/g	01/20/20 11:42	02/10/20 16:39	1
Radium-228	1.64		0.271	0.319	1.00	0.225	pCi/g	01/20/20 11:42	02/10/20 16:39	1

Client Sample ID: WRSB213_0-0.5

Lab Sample ID: 160-36995-13

Date Collected: 01/13/20 14:09

Matrix: Solid

Date Received: 01/16/20 09:10

Percent Solids: 94.3

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
							Uncert.	Uncert.	
Thorium	7.3		0.20	0.090	mg/Kg	⊗	01/29/20 11:13	02/10/20 23:28	2
Uranium	1.5		0.10	0.040	mg/Kg	⊗	01/29/20 11:13	02/10/20 23:28	2

Client Sample ID: WRSB213_0.5-3

Lab Sample ID: 160-36995-14

Date Collected: 01/13/20 14:16

Matrix: Solid

Date Received: 01/16/20 09:10

Percent Solids: 94.3

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-226	1.15		0.178	0.215	1.00	0.151	pCi/g	01/20/20 11:42	02/10/20 16:41	1
Radium-228	1.35		0.245	0.281	1.00	0.210	pCi/g	01/20/20 11:42	02/10/20 16:41	1

Client Sample ID: WRSB213_0.5-3

Lab Sample ID: 160-36995-14

Date Collected: 01/13/20 14:16

Matrix: Solid

Date Received: 01/16/20 09:10

Percent Solids: 94.5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
							Uncert.	Uncert.	
Thorium	7.6		0.20	0.091	mg/Kg	⊗	01/29/20 11:13	02/10/20 23:55	2

Eurofins TestAmerica, St. Louis

Client Sample Results

Client: Wood E&I Solutions Inc

Job ID: 160-36995-1

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Client Sample ID: WRSB213_0.5-3

Lab Sample ID: 160-36995-14

Date Collected: 01/13/20 14:16

Matrix: Solid

Date Received: 01/16/20 09:10

Percent Solids: 94.5

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	1.5		0.10	0.040	mg/Kg	⌚	01/29/20 11:13	02/10/20 23:55	2

Client Sample ID: WRSB213_3-6

Lab Sample ID: 160-36995-15

Date Collected: 01/13/20 14:27

Matrix: Solid

Date Received: 01/16/20 09:10

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	1.55		0.243	0.302	1.00	0.174	pCi/g	01/20/20 11:42	02/10/20 16:38	1
Radium-228	1.71		0.313	0.370	1.00	0.304	pCi/g	01/20/20 11:42	02/10/20 16:38	1

Client Sample ID: WRSB213_3-6

Lab Sample ID: 160-36995-15

Date Collected: 01/13/20 14:27

Matrix: Solid

Date Received: 01/16/20 09:10

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	7.3		0.19	0.087	mg/Kg	⌚	01/29/20 11:13	02/11/20 00:02	2
Uranium	1.6		0.097	0.039	mg/Kg	⌚	01/29/20 11:13	02/11/20 00:02	2

Client Sample ID: WRSB213_6-15

Lab Sample ID: 160-36995-16

Date Collected: 01/13/20 14:34

Matrix: Solid

Date Received: 01/16/20 09:10

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	1.41		0.262	0.301	1.00	0.199	pCi/g	01/20/20 11:42	02/10/20 17:05	1
Radium-228	1.65		0.330	0.371	1.00	0.128	pCi/g	01/20/20 11:42	02/10/20 17:05	1

Client Sample ID: WRSB213_6-15

Lab Sample ID: 160-36995-16

Date Collected: 01/13/20 14:34

Matrix: Solid

Date Received: 01/16/20 09:10

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	7.9		0.20	0.090	mg/Kg	⌚	01/29/20 11:13	02/11/20 00:09	2
Uranium	1.6		0.10	0.040	mg/Kg	⌚	01/29/20 11:13	02/11/20 00:09	2

Client Sample ID: WRSB213-FD_6-15

Lab Sample ID: 160-36995-17

Date Collected: 01/13/20 14:46

Matrix: Solid

Date Received: 01/16/20 09:10

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	1.35		0.171	0.221	1.00	0.111	pCi/g	01/20/20 11:42	02/10/20 17:05	1
Radium-228	1.28		0.234	0.268	1.00	0.246	pCi/g	01/20/20 11:42	02/10/20 17:05	1

Eurofins TestAmerica, St. Louis

Client Sample Results

Client: Wood E&I Solutions Inc

Job ID: 160-36995-1

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Client Sample ID: WRSB213-FD_6-15

Lab Sample ID: 160-36995-17

Date Collected: 01/13/20 14:46

Matrix: Solid

Date Received: 01/16/20 09:10

Percent Solids: 94.7

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	7.4		0.20	0.090	mg/Kg	⊗	01/29/20 11:13	02/11/20 00:16	2
Uranium	2.2		0.10	0.040	mg/Kg	⊗	01/29/20 11:13	02/11/20 00:16	2

Client Sample ID: WRSB216_0-0.5

Lab Sample ID: 160-36995-18

Date Collected: 01/14/20 08:32

Matrix: Solid

Date Received: 01/16/20 09:10

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-226	5.52		0.390	0.685	1.00	0.185	pCi/g	01/20/20 11:42	02/10/20 17:06	1
Radium-228	2.21		0.394	0.453	1.00	0.383	pCi/g	01/20/20 11:42	02/10/20 17:06	1

Client Sample ID: WRSB216_0-0.5

Lab Sample ID: 160-36995-18

Date Collected: 01/14/20 08:32

Matrix: Solid

Date Received: 01/16/20 09:10

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	15		0.20	0.090	mg/Kg	⊗	01/29/20 11:13	02/11/20 00:23	2
Uranium	19		0.10	0.040	mg/Kg	⊗	01/29/20 11:13	02/11/20 00:23	2

Client Sample ID: WRSB216_0.5-3

Lab Sample ID: 160-36995-19

Date Collected: 01/14/20 08:42

Matrix: Solid

Date Received: 01/16/20 09:10

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-226	2.45		0.263	0.366	1.00	0.159	pCi/g	01/20/20 11:42	02/10/20 17:07	1
Radium-228	1.28		0.267	0.297	1.00	0.237	pCi/g	01/20/20 11:42	02/10/20 17:07	1

Client Sample ID: WRSB216_0.5-3

Lab Sample ID: 160-36995-19

Date Collected: 01/14/20 08:42

Matrix: Solid

Date Received: 01/16/20 09:10

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	7.1		0.20	0.089	mg/Kg	⊗	01/29/20 11:14	02/11/20 00:29	2
Uranium	5.5		0.099	0.040	mg/Kg	⊗	01/29/20 11:14	02/11/20 00:29	2

Client Sample ID: WRSB216_3-6

Lab Sample ID: 160-36995-20

Date Collected: 01/14/20 08:49

Matrix: Solid

Date Received: 01/16/20 09:10

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-226	2.18		0.305	0.380	1.00	0.200	pCi/g	01/20/20 11:42	02/10/20 17:50	1

Eurofins TestAmerica, St. Louis

Client Sample Results

Client: Wood E&I Solutions Inc
 Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36995-1

Client Sample ID: WRSB216_3-6

Lab Sample ID: 160-36995-20

Date Collected: 01/14/20 08:49

Matrix: Solid

Date Received: 01/16/20 09:10

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	2.03		0.386	0.438	1.00	0.300	pCi/g	01/20/20 11:42	02/10/20 17:50	1

Client Sample ID: WRSB216_3-6

Lab Sample ID: 160-36995-20

Date Collected: 01/14/20 08:49

Matrix: Solid

Date Received: 01/16/20 09:10

Percent Solids: 94.1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	12		0.20	0.090	mg/Kg	✉	01/29/20 11:15	02/08/20 08:57	2
Uranium	4.3		0.10	0.040	mg/Kg	✉	01/29/20 11:15	02/08/20 08:57	2

Client Sample ID: WRSB216_6-15

Lab Sample ID: 160-36995-21

Date Collected: 01/14/20 08:54

Matrix: Solid

Date Received: 01/16/20 09:10

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	2.53		0.275	0.380	1.00	0.174	pCi/g	01/20/20 11:42	02/10/20 17:52	1
Radium-228	1.96		0.291	0.353	1.00	0.259	pCi/g	01/20/20 11:42	02/10/20 17:52	1

Client Sample ID: WRSB216_6-15

Lab Sample ID: 160-36995-21

Date Collected: 01/14/20 08:54

Matrix: Solid

Date Received: 01/16/20 09:10

Percent Solids: 93.3

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	12		0.19	0.084	mg/Kg	✉	01/29/20 11:15	02/08/20 09:51	2
Uranium	4.8		0.094	0.038	mg/Kg	✉	01/29/20 11:15	02/08/20 09:51	2

Client Sample ID: WRSB208_136.5-141.5

Lab Sample ID: 160-36995-22

Date Collected: 01/09/20 07:50

Matrix: Solid

Date Received: 01/16/20 09:10

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.944		0.212	0.233	1.00	0.176	pCi/g	01/20/20 11:42	02/10/20 17:53	1
Radium-228	1.10		0.257	0.281	1.00	0.187	pCi/g	01/20/20 11:42	02/10/20 17:53	1

Client Sample ID: WRSB208_136.5-141.5

Lab Sample ID: 160-36995-22

Date Collected: 01/09/20 07:50

Matrix: Solid

Date Received: 01/16/20 09:10

Percent Solids: 95.3

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	7.1		0.19	0.083	mg/Kg	✉	01/29/20 11:15	02/08/20 09:58	2
Uranium	1.5		0.093	0.037	mg/Kg	✉	01/29/20 11:15	02/08/20 09:58	2

Eurofins TestAmerica, St. Louis

Client Sample Results

Client: Wood E&I Solutions Inc

Job ID: 160-36995-1

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Client Sample ID: WRSB208_146.5-151.5

Lab Sample ID: 160-36995-23

Date Collected: 01/10/20 10:15

Matrix: Solid

Date Received: 01/16/20 09:10

Percent Solids: 97.4

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	5.3		0.19	0.084	mg/Kg	⌚	01/29/20 11:15	02/08/20 10:05	2
Uranium	1.1		0.093	0.037	mg/Kg	⌚	01/29/20 11:15	02/08/20 10:05	2

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
Radium-226	1.09		0.210	0.245	1.00	0.207	pCi/g	01/20/20 11:42	02/10/20 18:26	1
Radium-228	1.51		0.399	0.436	1.00	0.317	pCi/g	01/20/20 11:42	02/10/20 18:26	1

Client Sample ID: WRSB215_0-0.5

Lab Sample ID: 160-36995-24

Date Collected: 01/14/20 08:55

Matrix: Solid

Date Received: 01/16/20 09:10

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
Radium-226	1.03		0.203	0.230	1.00	0.177	pCi/g	01/20/20 11:42	02/10/20 17:48	1
Radium-228	1.47		0.279	0.317	1.00	0.208	pCi/g	01/20/20 11:42	02/10/20 17:48	1

Client Sample ID: WRSB215_0-0.5

Lab Sample ID: 160-36995-24

Date Collected: 01/14/20 08:55

Matrix: Solid

Date Received: 01/16/20 09:10

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	6.9		0.20	0.090	mg/Kg	⌚	01/29/20 11:15	02/08/20 10:11	2
Uranium	1.1		0.10	0.040	mg/Kg	⌚	01/29/20 11:15	02/08/20 10:11	2

Client Sample ID: WRSB215_0.5-3

Lab Sample ID: 160-36995-25

Date Collected: 01/14/20 09:02

Matrix: Solid

Date Received: 01/16/20 09:10

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
Radium-226	1.40		0.228	0.269	1.00	0.234	pCi/g	01/20/20 11:42	02/10/20 17:51	1
Radium-228	1.73		0.249	0.305	1.00	0.269	pCi/g	01/20/20 11:42	02/10/20 17:51	1

Client Sample ID: WRSB215_0.5-3

Lab Sample ID: 160-36995-25

Date Collected: 01/14/20 09:02

Matrix: Solid

Date Received: 01/16/20 09:10

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	5.6		0.20	0.092	mg/Kg	⌚	01/29/20 11:15	02/08/20 10:18	2
Uranium	1.1		0.10	0.041	mg/Kg	⌚	01/29/20 11:15	02/08/20 10:18	2

Eurofins TestAmerica, St. Louis

Client Sample Results

Client: Wood E&I Solutions Inc

Job ID: 160-36995-1

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Client Sample ID: WRSB215_3-6

Lab Sample ID: 160-36995-26

Date Collected: 01/14/20 09:12

Matrix: Solid

Date Received: 01/16/20 09:10

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	(2σ+/-)						
Radium-226	1.27		0.191	0.232	1.00	0.136	pCi/g	01/20/20 11:42	02/10/20 18:25	1
Radium-228	1.58		0.273	0.317	1.00	0.208	pCi/g	01/20/20 11:42	02/10/20 18:25	1

Client Sample ID: WRSB215_3-6

Lab Sample ID: 160-36995-26

Date Collected: 01/14/20 09:12

Matrix: Solid

Date Received: 01/16/20 09:10

Percent Solids: 94.9

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	7.1		0.21	0.092	mg/Kg	⌚	01/29/20 11:15	02/08/20 10:25	2
Uranium	1.2		0.10	0.041	mg/Kg	⌚	01/29/20 11:15	02/08/20 10:25	2

Client Sample ID: WRSB215_6-15

Lab Sample ID: 160-36995-27

Date Collected: 01/14/20 09:25

Matrix: Solid

Date Received: 01/16/20 09:10

Percent Solids: 94.9

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	(2σ+/-)						
Radium-226	1.43		0.225	0.268	1.00	0.160	pCi/g	01/20/20 11:42	02/10/20 18:26	1
Radium-228	1.77		0.275	0.329	1.00	0.0968	pCi/g	01/20/20 11:42	02/10/20 18:26	1

Client Sample ID: WRSB215_6-15

Lab Sample ID: 160-36995-27

Date Collected: 01/14/20 09:25

Matrix: Solid

Date Received: 01/16/20 09:10

Percent Solids: 95.6

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	7.6		0.19	0.084	mg/Kg	⌚	01/29/20 11:16	02/08/20 10:31	2
Uranium	1.8		0.093	0.037	mg/Kg	⌚	01/29/20 11:16	02/08/20 10:31	2

Eurofins TestAmerica, St. Louis

QC Sample Results

Client: Wood E&I Solutions Inc

Job ID: 160-36995-1

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-458513/1-A

Matrix: Solid

Analysis Batch: 459867

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 458513

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	ND		0.19	0.087	mg/Kg		01/29/20 11:13	02/10/20 21:00	2
Uranium	ND		0.097	0.039	mg/Kg		01/29/20 11:13	02/10/20 21:00	2

Lab Sample ID: LCS 160-458513/2-A

Matrix: Solid

Analysis Batch: 459867

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 458513

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Thorium	98.5	98.8		mg/Kg		100	80 - 120
Uranium	98.5	98.8		mg/Kg		100	80 - 120

Lab Sample ID: 160-36995-10 MS

Matrix: Solid

Analysis Batch: 459867

Client Sample ID: WRSB214_0.5-3

Prep Type: Total/NA

Prep Batch: 458513

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Thorium	6.6		95.4	103		mg/Kg	⊗	101	75 - 125
Uranium	1.4		95.4	96.8		mg/Kg	⊗	100	75 - 125

Lab Sample ID: 160-36995-10 MSD

Matrix: Solid

Analysis Batch: 459867

Client Sample ID: WRSB214_0.5-3

Prep Type: Total/NA

Prep Batch: 458513

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	RPD	RPD	Limit
Thorium	6.6		100	109		mg/Kg	⊗	102	75 - 125	6	30
Uranium	1.4		100	103		mg/Kg	⊗	101	75 - 125	6	30

Lab Sample ID: 160-36995-10 DU

Matrix: Solid

Analysis Batch: 459867

Client Sample ID: WRSB214_0.5-3

Prep Type: Total/NA

Prep Batch: 458513

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	RPD	RPD	Limit
Thorium	6.6		100	6.10		mg/Kg	⊗	8	30	
Uranium	1.4		100	1.16		mg/Kg	⊗	17	30	

Lab Sample ID: MB 160-458514/1-A

Matrix: Solid

Analysis Batch: 459787

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 458514

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	ND		0.19	0.083	mg/Kg		01/29/20 11:15	02/08/20 08:37	2
Uranium	ND		0.093	0.037	mg/Kg		01/29/20 11:15	02/08/20 08:37	2

Lab Sample ID: LCS 160-458514/2-A

Matrix: Solid

Analysis Batch: 459787

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 458514

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Thorium	90.6	85.7		mg/Kg		95	80 - 120

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QC Sample Results

Client: Wood E&I Solutions Inc

Job ID: 160-36995-1

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSSRM 160-458514/3-A

Matrix: Solid

Analysis Batch: 459787

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 458514

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec.
Uranium	70.9	61.3		mg/Kg	86.5	62.6 - 110.	0

Lab Sample ID: 160-36995-20 MS

Matrix: Solid

Analysis Batch: 459787

Client Sample ID: WRSB216_3-6

Prep Type: Total/NA

Prep Batch: 458514

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.
Thorium	12		101	110		mg/Kg	⊗	97	75 - 125
Uranium	4.3		101	99.8		mg/Kg	⊗	95	75 - 125

Lab Sample ID: 160-36995-20 MSD

Matrix: Solid

Analysis Batch: 459787

Client Sample ID: WRSB216_3-6

Prep Type: Total/NA

Prep Batch: 458514

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.	RPD
Thorium	12		99.2	111		mg/Kg	⊗	100	75 - 125	1
Uranium	4.3		99.2	105		mg/Kg	⊗	101	75 - 125	5

Lab Sample ID: 160-36995-20 DU

Matrix: Solid

Analysis Batch: 459787

Client Sample ID: WRSB216_3-6

Prep Type: Total/NA

Prep Batch: 458514

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Thorium	12		12.5		mg/Kg	⊗	1	30
Uranium	4.3		5.39		mg/Kg	⊗	23	30

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-457261/1-A

Matrix: Solid

Analysis Batch: 459765

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 457261

Analyte	MB Result	MB Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.05801	U	0.0962	0.0964	1.00	0.260	pCi/g	01/20/20 10:58	02/10/20 18:47	1
Radium-228	-0.0001232	U	0.00119	0.00119	1.00	0.173	pCi/g	01/20/20 10:58	02/10/20 18:47	1

Lab Sample ID: LCS 160-457261/2-A

Matrix: Solid

Analysis Batch: 459753

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 457261

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec.
				Uncert. (2σ+/-)					
Americium-241	96.6	98.48		10.3		0.960	pCi/g	102	75 - 125
Cesium-137	27.2	26.62		2.83		0.159	pCi/g	98	75 - 125
Cobalt-60	10.6	9.937		1.04		0.0638	pCi/g	94	75 - 125

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QC Sample Results

Client: Wood E&I Solutions Inc

Job ID: 160-36995-1

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: 160-36995-10 DU

Matrix: Solid

Analysis Batch: 459997

Client Sample ID: WRSB214_0.5-3

Prep Type: Total/NA

Prep Batch: 457261

Analyte	Sample	Sample	DU		DU		Total		RL	MDC	Unit	DER	Limit
	Result	Qual	Result	Qual	(2σ+/-)	Uncert.	RL	DER					
Radium-226	1.31		1.479		0.304		1.00	0.183	pCi/g	0.85		2	
Radium-228	1.59		1.555		0.344		1.00	0.229	pCi/g	0.12		2	

Lab Sample ID: MB 160-457271/1-A

Matrix: Solid

Analysis Batch: 459755

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 457271

Analyte	MB	MB	Count		Total		RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	(2σ+/-)	Uncert.	(2σ+/-)	Uncert.						
Radium-226	-0.04705	U	0.101		0.101		1.00	0.328	pCi/g	01/20/20 11:42	02/10/20 16:34	1
Radium-228	0.08907	U	0.150		0.151		1.00	0.224	pCi/g	01/20/20 11:42	02/10/20 16:34	1

Lab Sample ID: LCS 160-457271/2-A

Matrix: Solid

Analysis Batch: 459756

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 457271

Analyte	Spike	LCS	LCS	Total		RL	MDC	Unit	%Rec	Limits	%Rec.	Limits
	Added	Result	Qual	(2σ+/-)	Uncert.							
Americium-241	96.6	96.51		10.2			1.38	pCi/g	100	75 - 125		
Cesium-137	27.2	26.53		2.86			0.248	pCi/g	97	75 - 125		
Cobalt-60	10.6	10.78		1.15			0.148	pCi/g	102	75 - 125		

Lab Sample ID: 160-36995-13 DU

Matrix: Solid

Analysis Batch: 459753

Client Sample ID: WRSB213_0-0.5

Prep Type: Total/NA

Prep Batch: 457271

Analyte	Sample	Sample	DU		DU		Total		RL	MDC	Unit	DER	Limit
	Result	Qual	Result	Qual	(2σ+/-)	Uncert.	RL	MDC					
Radium-226	1.24		1.258		0.231		1.00	0.135	pCi/g	0.11		2	
Radium-228	1.64		1.412		0.268		1.00	0.162	pCi/g	1.08		2	

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QC Association Summary

Client: Wood E&I Solutions Inc

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36995-1

Metals

Prep Batch: 458513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-36995-1	WRSB225_0-0.5	Total/NA	Solid	3050B	1
160-36995-2	WRSB225_0.5-3	Total/NA	Solid	3050B	2
160-36995-3	WRSB225_3-6	Total/NA	Solid	3050B	3
160-36995-4	WRSB225_6-15	Total/NA	Solid	3050B	4
160-36995-5	WRSB221_0-0.5	Total/NA	Solid	3050B	5
160-36995-6	WRSB221_0.5-3	Total/NA	Solid	3050B	6
160-36995-7	WRSB221_3-6	Total/NA	Solid	3050B	7
160-36995-8	WRSB221_6-15	Total/NA	Solid	3050B	8
160-36995-9	WRSB214_0-0.5	Total/NA	Solid	3050B	9
160-36995-10	WRSB214_0.5-3	Total/NA	Solid	3050B	10
160-36995-11	WRSB214_3-6	Total/NA	Solid	3050B	11
160-36995-12	WRSB214_6-15	Total/NA	Solid	3050B	12
160-36995-13	WRSB213_0-0.5	Total/NA	Solid	3050B	13
160-36995-14	WRSB213_0.5-3	Total/NA	Solid	3050B	14
160-36995-15	WRSB213_3-6	Total/NA	Solid	3050B	15
160-36995-16	WRSB213_6-15	Total/NA	Solid	3050B	16
160-36995-17	WRSB213-FD_6-15	Total/NA	Solid	3050B	17
160-36995-18	WRSB216_0-0.5	Total/NA	Solid	3050B	18
160-36995-19	WRSB216_0.5-3	Total/NA	Solid	3050B	19
MB 160-458513/1-A	Method Blank	Total/NA	Solid	3050B	20
LCS 160-458513/2-A	Lab Control Sample	Total/NA	Solid	3050B	21
160-36995-10 MS	WRSB214_0.5-3	Total/NA	Solid	3050B	22
160-36995-10 MSD	WRSB214_0.5-3	Total/NA	Solid	3050B	23
160-36995-10 DU	WRSB214_0.5-3	Total/NA	Solid	3050B	24

Prep Batch: 458514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-36995-20	WRSB216_3-6	Total/NA	Solid	3050B	1
160-36995-21	WRSB216_6-15	Total/NA	Solid	3050B	2
160-36995-22	WRSB208_136.5-141.5	Total/NA	Solid	3050B	3
160-36995-23	WRSB208_146.5-151.5	Total/NA	Solid	3050B	4
160-36995-24	WRSB215_0-0.5	Total/NA	Solid	3050B	5
160-36995-25	WRSB215_0.5-3	Total/NA	Solid	3050B	6
160-36995-26	WRSB215_3-6	Total/NA	Solid	3050B	7
160-36995-27	WRSB215_6-15	Total/NA	Solid	3050B	8
MB 160-458514/1-A	Method Blank	Total/NA	Solid	3050B	9
LCS 160-458514/2-A	Lab Control Sample	Total/NA	Solid	3050B	10
LCSSRM 160-458514/3-A	Lab Control Sample	Total/NA	Solid	3050B	11
160-36995-20 MS	WRSB216_3-6	Total/NA	Solid	3050B	12
160-36995-20 MSD	WRSB216_3-6	Total/NA	Solid	3050B	13
160-36995-20 DU	WRSB216_3-6	Total/NA	Solid	3050B	14

Analysis Batch: 459787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-36995-20	WRSB216_3-6	Total/NA	Solid	6020A	1
160-36995-21	WRSB216_6-15	Total/NA	Solid	6020A	2
160-36995-22	WRSB208_136.5-141.5	Total/NA	Solid	6020A	3
160-36995-23	WRSB208_146.5-151.5	Total/NA	Solid	6020A	4
160-36995-24	WRSB215_0-0.5	Total/NA	Solid	6020A	5
160-36995-25	WRSB215_0.5-3	Total/NA	Solid	6020A	6
160-36995-26	WRSB215_3-6	Total/NA	Solid	6020A	7

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QC Association Summary

Client: Wood E&I Solutions Inc

Job ID: 160-36995-1

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Metals (Continued)

Analysis Batch: 459787 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-36995-27	WRSB215_6-15	Total/NA	Solid	6020A	458514
MB 160-458514/1-A	Method Blank	Total/NA	Solid	6020A	458514
LCS 160-458514/2-A	Lab Control Sample	Total/NA	Solid	6020A	458514
LCSSRM 160-458514/3-A	Lab Control Sample	Total/NA	Solid	6020A	458514
160-36995-20 MS	WRSB216_3-6	Total/NA	Solid	6020A	458514
160-36995-20 MSD	WRSB216_3-6	Total/NA	Solid	6020A	458514
160-36995-20 DU	WRSB216_3-6	Total/NA	Solid	6020A	458514

Analysis Batch: 459867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-36995-1	WRSB225_0-0.5	Total/NA	Solid	6020A	458513
160-36995-2	WRSB225_0.5-3	Total/NA	Solid	6020A	458513
160-36995-3	WRSB225_3-6	Total/NA	Solid	6020A	458513
160-36995-4	WRSB225_6-15	Total/NA	Solid	6020A	458513
160-36995-5	WRSB221_0-0.5	Total/NA	Solid	6020A	458513
160-36995-6	WRSB221_0.5-3	Total/NA	Solid	6020A	458513
160-36995-7	WRSB221_3-6	Total/NA	Solid	6020A	458513
160-36995-8	WRSB221_6-15	Total/NA	Solid	6020A	458513
160-36995-9	WRSB214_0-0.5	Total/NA	Solid	6020A	458513
160-36995-10	WRSB214_0.5-3	Total/NA	Solid	6020A	458513
160-36995-11	WRSB214_3-6	Total/NA	Solid	6020A	458513
160-36995-12	WRSB214_6-15	Total/NA	Solid	6020A	458513
160-36995-13	WRSB213_0-0.5	Total/NA	Solid	6020A	458513
160-36995-14	WRSB213_0.5-3	Total/NA	Solid	6020A	458513
160-36995-15	WRSB213_3-6	Total/NA	Solid	6020A	458513
160-36995-16	WRSB213_6-15	Total/NA	Solid	6020A	458513
160-36995-17	WRSB213-FD_6-15	Total/NA	Solid	6020A	458513
160-36995-18	WRSB216_0-0.5	Total/NA	Solid	6020A	458513
160-36995-19	WRSB216_0.5-3	Total/NA	Solid	6020A	458513
MB 160-458513/1-A	Method Blank	Total/NA	Solid	6020A	458513
LCS 160-458513/2-A	Lab Control Sample	Total/NA	Solid	6020A	458513
160-36995-10 MS	WRSB214_0.5-3	Total/NA	Solid	6020A	458513
160-36995-10 MSD	WRSB214_0.5-3	Total/NA	Solid	6020A	458513
160-36995-10 DU	WRSB214_0.5-3	Total/NA	Solid	6020A	458513

General Chemistry

Analysis Batch: 457226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-36995-1	WRSB225_0-0.5	Total/NA	Solid	Moisture	
160-36995-2	WRSB225_0.5-3	Total/NA	Solid	Moisture	
160-36995-3	WRSB225_3-6	Total/NA	Solid	Moisture	
160-36995-4	WRSB225_6-15	Total/NA	Solid	Moisture	
160-36995-5	WRSB221_0-0.5	Total/NA	Solid	Moisture	
160-36995-6	WRSB221_0.5-3	Total/NA	Solid	Moisture	
160-36995-7	WRSB221_3-6	Total/NA	Solid	Moisture	
160-36995-8	WRSB221_6-15	Total/NA	Solid	Moisture	
160-36995-9	WRSB214_0-0.5	Total/NA	Solid	Moisture	
160-36995-10	WRSB214_0.5-3	Total/NA	Solid	Moisture	
160-36995-11	WRSB214_3-6	Total/NA	Solid	Moisture	
160-36995-12	WRSB214_6-15	Total/NA	Solid	Moisture	

QC Association Summary

Client: Wood E&I Solutions Inc

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36995-1

General Chemistry (Continued)

Analysis Batch: 457226 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-36995-13	WRSB213_0-0.5	Total/NA	Solid	Moisture	
160-36995-14	WRSB213_0.5-3	Total/NA	Solid	Moisture	
160-36995-15	WRSB213_3-6	Total/NA	Solid	Moisture	
160-36995-16	WRSB213_6-15	Total/NA	Solid	Moisture	
160-36995-17	WRSB213-FD_6-15	Total/NA	Solid	Moisture	
160-36995-18	WRSB216_0-0.5	Total/NA	Solid	Moisture	
160-36995-19	WRSB216_0.5-3	Total/NA	Solid	Moisture	
160-36995-20	WRSB216_3-6	Total/NA	Solid	Moisture	
160-36995-10 DU	WRSB214_0.5-3	Total/NA	Solid	Moisture	

Analysis Batch: 457230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-36995-21	WRSB216_6-15	Total/NA	Solid	Moisture	
160-36995-22	WRSB208_136.5-141.5	Total/NA	Solid	Moisture	
160-36995-23	WRSB208_146.5-151.5	Total/NA	Solid	Moisture	
160-36995-24	WRSB215_0-0.5	Total/NA	Solid	Moisture	
160-36995-25	WRSB215_0.5-3	Total/NA	Solid	Moisture	
160-36995-26	WRSB215_3-6	Total/NA	Solid	Moisture	
160-36995-27	WRSB215_6-15	Total/NA	Solid	Moisture	
160-36995-21 DU	WRSB216_6-15	Total/NA	Solid	Moisture	

Rad

Leach Batch: 457007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-36995-1	WRSB225_0-0.5	Total/NA	Solid	Dry and Grind	
160-36995-2	WRSB225_0.5-3	Total/NA	Solid	Dry and Grind	
160-36995-3	WRSB225_3-6	Total/NA	Solid	Dry and Grind	
160-36995-4	WRSB225_6-15	Total/NA	Solid	Dry and Grind	
160-36995-5	WRSB221_0-0.5	Total/NA	Solid	Dry and Grind	
160-36995-6	WRSB221_0.5-3	Total/NA	Solid	Dry and Grind	
160-36995-7	WRSB221_3-6	Total/NA	Solid	Dry and Grind	
160-36995-8	WRSB221_6-15	Total/NA	Solid	Dry and Grind	
160-36995-9	WRSB214_0-0.5	Total/NA	Solid	Dry and Grind	
160-36995-10	WRSB214_0.5-3	Total/NA	Solid	Dry and Grind	
160-36995-11	WRSB214_3-6	Total/NA	Solid	Dry and Grind	
160-36995-12	WRSB214_6-15	Total/NA	Solid	Dry and Grind	
160-36995-13	WRSB213_0-0.5	Total/NA	Solid	Dry and Grind	
160-36995-14	WRSB213_0.5-3	Total/NA	Solid	Dry and Grind	
160-36995-15	WRSB213_3-6	Total/NA	Solid	Dry and Grind	
160-36995-16	WRSB213_6-15	Total/NA	Solid	Dry and Grind	
160-36995-17	WRSB213-FD_6-15	Total/NA	Solid	Dry and Grind	
160-36995-18	WRSB216_0-0.5	Total/NA	Solid	Dry and Grind	
160-36995-19	WRSB216_0.5-3	Total/NA	Solid	Dry and Grind	
160-36995-20	WRSB216_3-6	Total/NA	Solid	Dry and Grind	
160-36995-21	WRSB216_6-15	Total/NA	Solid	Dry and Grind	
160-36995-22	WRSB208_136.5-141.5	Total/NA	Solid	Dry and Grind	
160-36995-23	WRSB208_146.5-151.5	Total/NA	Solid	Dry and Grind	
160-36995-24	WRSB215_0-0.5	Total/NA	Solid	Dry and Grind	
160-36995-25	WRSB215_0.5-3	Total/NA	Solid	Dry and Grind	
160-36995-26	WRSB215_3-6	Total/NA	Solid	Dry and Grind	

Eurofins TestAmerica, St. Louis

QC Association Summary

Client: Wood E&I Solutions Inc

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36995-1

Rad (Continued)

Leach Batch: 457007 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-36995-27	WRSB215_6-15	Total/NA	Solid	Dry and Grind	
160-36995-10 DU	WRSB214_0.5-3	Total/NA	Solid	Dry and Grind	
160-36995-13 DU	WRSB213_0-0.5	Total/NA	Solid	Dry and Grind	

Prep Batch: 457261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-36995-1	WRSB225_0-0.5	Total/NA	Solid	Fill_Geo-21	457007
160-36995-2	WRSB225_0.5-3	Total/NA	Solid	Fill_Geo-21	457007
160-36995-3	WRSB225_3-6	Total/NA	Solid	Fill_Geo-21	457007
160-36995-4	WRSB225_6-15	Total/NA	Solid	Fill_Geo-21	457007
160-36995-5	WRSB221_0-0.5	Total/NA	Solid	Fill_Geo-21	457007
160-36995-6	WRSB221_0.5-3	Total/NA	Solid	Fill_Geo-21	457007
160-36995-7	WRSB221_3-6	Total/NA	Solid	Fill_Geo-21	457007
160-36995-8	WRSB221_6-15	Total/NA	Solid	Fill_Geo-21	457007
160-36995-9	WRSB214_0-0.5	Total/NA	Solid	Fill_Geo-21	457007
160-36995-10	WRSB214_0.5-3	Total/NA	Solid	Fill_Geo-21	457007
160-36995-11	WRSB214_3-6	Total/NA	Solid	Fill_Geo-21	457007
160-36995-12	WRSB214_6-15	Total/NA	Solid	Fill_Geo-21	457007
MB 160-457261/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-457261/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
160-36995-10 DU	WRSB214_0.5-3	Total/NA	Solid	Fill_Geo-21	457007

Prep Batch: 457271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-36995-13	WRSB213_0-0.5	Total/NA	Solid	Fill_Geo-21	457007
160-36995-14	WRSB213_0.5-3	Total/NA	Solid	Fill_Geo-21	457007
160-36995-15	WRSB213_3-6	Total/NA	Solid	Fill_Geo-21	457007
160-36995-16	WRSB213_6-15	Total/NA	Solid	Fill_Geo-21	457007
160-36995-17	WRSB213-FD_6-15	Total/NA	Solid	Fill_Geo-21	457007
160-36995-18	WRSB216_0-0.5	Total/NA	Solid	Fill_Geo-21	457007
160-36995-19	WRSB216_0.5-3	Total/NA	Solid	Fill_Geo-21	457007
160-36995-20	WRSB216_3-6	Total/NA	Solid	Fill_Geo-21	457007
160-36995-21	WRSB216_6-15	Total/NA	Solid	Fill_Geo-21	457007
160-36995-22	WRSB208_136.5-141.5	Total/NA	Solid	Fill_Geo-21	457007
160-36995-23	WRSB208_146.5-151.5	Total/NA	Solid	Fill_Geo-21	457007
160-36995-24	WRSB215_0-0.5	Total/NA	Solid	Fill_Geo-21	457007
160-36995-25	WRSB215_0.5-3	Total/NA	Solid	Fill_Geo-21	457007
160-36995-26	WRSB215_3-6	Total/NA	Solid	Fill_Geo-21	457007
160-36995-27	WRSB215_6-15	Total/NA	Solid	Fill_Geo-21	457007
MB 160-457271/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-457271/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
160-36995-13 DU	WRSB213_0-0.5	Total/NA	Solid	Fill_Geo-21	457007

Lab Chronicle

Client: Wood E&I Solutions Inc
 Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36995-1

Client Sample ID: WRSB225_0-0.5

Date Collected: 01/09/20 13:27

Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457226	01/20/20 06:59	RJD	TAL SL
Total/NA	Leach	Dry and Grind			457007	01/16/20 15:30	MLG	TAL SL
Total/NA	Prep	Fill_Geo-21			457261	01/20/20 10:58	LTC	TAL SL
Total/NA	Analysis	901.1		1	459752	02/10/20 19:10	AJD	TAL SL

Client Sample ID: WRSB225_0-0.5

Date Collected: 01/09/20 13:27

Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-1

Matrix: Solid

Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			458513	01/29/20 11:13	LAM	TAL SL
Total/NA	Analysis	6020A		2	459867	02/10/20 21:20	FLC	TAL SL

Client Sample ID: WRSB225_0.5-3

Date Collected: 01/09/20 13:33

Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457226	01/20/20 06:59	RJD	TAL SL
Total/NA	Leach	Dry and Grind			457007	01/16/20 15:30	MLG	TAL SL
Total/NA	Prep	Fill_Geo-21			457261	01/20/20 10:58	LTC	TAL SL
Total/NA	Analysis	901.1		1	459755	02/10/20 18:49	AJD	TAL SL

Client Sample ID: WRSB225_0.5-3

Date Collected: 01/09/20 13:33

Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-2

Matrix: Solid

Percent Solids: 94.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			458513	01/29/20 11:13	LAM	TAL SL
Total/NA	Analysis	6020A		2	459867	02/10/20 21:27	FLC	TAL SL

Client Sample ID: WRSB225_3-6

Date Collected: 01/09/20 13:42

Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457226	01/20/20 06:59	RJD	TAL SL
Total/NA	Leach	Dry and Grind			457007	01/16/20 15:30	MLG	TAL SL
Total/NA	Prep	Fill_Geo-21			457261	01/20/20 10:58	LTC	TAL SL
Total/NA	Analysis	901.1		1	459756	02/10/20 18:50	KLS	TAL SL

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Lab Chronicle

Client: Wood E&I Solutions Inc
 Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36995-1

Client Sample ID: WRSB225_3-6

Date Collected: 01/09/20 13:42
 Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-3

Matrix: Solid

Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			458513	01/29/20 11:13	LAM	TAL SL
Total/NA	Analysis	6020A		2	459867	02/10/20 21:34	FLC	TAL SL

Client Sample ID: WRSB225_6-15

Date Collected: 01/09/20 13:49
 Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457226	01/20/20 06:59	RJD	TAL SL
Total/NA	Leach	Dry and Grind			457007	01/16/20 15:30	MLG	TAL SL
Total/NA	Prep	Fill_Geo-21			457261	01/20/20 10:58	LTC	TAL SL
Total/NA	Analysis	901.1		1	459757	02/10/20 18:51	JFL	TAL SL

Client Sample ID: WRSB225_6-15

Date Collected: 01/09/20 13:49
 Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-4

Matrix: Solid

Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			458513	01/29/20 11:13	LAM	TAL SL
Total/NA	Analysis	6020A		2	459867	02/10/20 21:41	FLC	TAL SL

Client Sample ID: WRSB221_0-0.5

Date Collected: 01/10/20 09:12
 Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457226	01/20/20 06:59	RJD	TAL SL
Total/NA	Leach	Dry and Grind			457007	01/16/20 15:30	MLG	TAL SL
Total/NA	Prep	Fill_Geo-21			457261	01/20/20 10:58	LTC	TAL SL
Total/NA	Analysis	901.1		1	459758	02/10/20 18:53	AJD	TAL SL

Client Sample ID: WRSB221_0-0.5

Date Collected: 01/10/20 09:12
 Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-5

Matrix: Solid

Percent Solids: 95.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			458513	01/29/20 11:13	LAM	TAL SL
Total/NA	Analysis	6020A		2	459867	02/10/20 21:47	FLC	TAL SL

Client Sample ID: WRSB221_0.5-3

Date Collected: 01/10/20 09:17
 Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457226	01/20/20 06:59	RJD	TAL SL

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Lab Chronicle

Client: Wood E&I Solutions Inc
 Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36995-1

Client Sample ID: WRSB221_0.5-3

Lab Sample ID: 160-36995-6

Matrix: Solid

Date Collected: 01/10/20 09:17

Date Received: 01/16/20 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			457007	01/16/20 15:30	MLG	TAL SL
Total/NA	Prep	Fill_Geo-21			457261	01/20/20 10:58	LTC	TAL SL
Total/NA	Analysis	901.1		1	459862	02/10/20 19:11	KLS	TAL SL

Client Sample ID: WRSB221_0.5-3

Lab Sample ID: 160-36995-6

Matrix: Solid

Date Collected: 01/10/20 09:17

Date Received: 01/16/20 09:10

Percent Solids: 96.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			458513	01/29/20 11:13	LAM	TAL SL
Total/NA	Analysis	6020A		2	459867	02/10/20 21:54	FLC	TAL SL

Client Sample ID: WRSB221_3-6

Lab Sample ID: 160-36995-7

Matrix: Solid

Date Collected: 01/10/20 09:28

Date Received: 01/16/20 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457226	01/20/20 06:59	RJD	TAL SL
Total/NA	Leach	Dry and Grind			457007	01/16/20 15:30	MLG	TAL SL
Total/NA	Prep	Fill_Geo-21			457261	01/20/20 10:58	LTC	TAL SL
Total/NA	Analysis	901.1		1	459765	02/10/20 20:12	KLS	TAL SL

Client Sample ID: WRSB221_3-6

Lab Sample ID: 160-36995-7

Matrix: Solid

Date Collected: 01/10/20 09:28

Date Received: 01/16/20 09:10

Percent Solids: 95.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			458513	01/29/20 11:13	LAM	TAL SL
Total/NA	Analysis	6020A		2	459867	02/10/20 22:01	FLC	TAL SL

Client Sample ID: WRSB221_6-15

Lab Sample ID: 160-36995-8

Matrix: Solid

Date Collected: 01/10/20 09:35

Date Received: 01/16/20 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457226	01/20/20 06:59	RJD	TAL SL
Total/NA	Leach	Dry and Grind			457007	01/16/20 15:30	MLG	TAL SL
Total/NA	Prep	Fill_Geo-21			457261	01/20/20 10:58	LTC	TAL SL
Total/NA	Analysis	901.1		1	459753	02/10/20 20:08	AJD	TAL SL

Eurofins TestAmerica, St. Louis

Lab Chronicle

Client: Wood E&I Solutions Inc
 Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36995-1

Client Sample ID: WRSB221_6-15

Date Collected: 01/10/20 09:35
 Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-8

Matrix: Solid

Percent Solids: 96.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			458513	01/29/20 11:13	LAM	TAL SL
Total/NA	Analysis	6020A		2	459867	02/10/20 22:28	FLC	TAL SL

Client Sample ID: WRSB214_0-0.5

Date Collected: 01/10/20 10:40
 Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457226	01/20/20 06:59	RJD	TAL SL
Total/NA	Leach	Dry and Grind			457007	01/16/20 15:30	MLG	TAL SL
Total/NA	Prep	Fill_Geo-21			457261	01/20/20 10:58	LTC	TAL SL
Total/NA	Analysis	901.1		1	459752	02/10/20 20:08	AJD	TAL SL

Client Sample ID: WRSB214_0-0.5

Date Collected: 01/10/20 10:40
 Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-9

Matrix: Solid

Percent Solids: 95.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			458513	01/29/20 11:13	LAM	TAL SL
Total/NA	Analysis	6020A		2	459867	02/10/20 22:34	FLC	TAL SL

Client Sample ID: WRSB214_0.5-3

Date Collected: 01/10/20 10:49
 Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457226	01/20/20 06:59	RJD	TAL SL
Total/NA	Leach	Dry and Grind			457007	01/16/20 15:30	MLG	TAL SL
Total/NA	Prep	Fill_Geo-21			457261	01/20/20 10:58	LTC	TAL SL
Total/NA	Analysis	901.1		1	459755	02/10/20 20:09	AJD	TAL SL

Client Sample ID: WRSB214_0.5-3

Date Collected: 01/10/20 10:49
 Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-10

Matrix: Solid

Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			458513	01/29/20 11:13	LAM	TAL SL
Total/NA	Analysis	6020A		2	459867	02/10/20 22:41	FLC	TAL SL

Client Sample ID: WRSB214_3-6

Date Collected: 01/10/20 10:58
 Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457226	01/20/20 06:59	RJD	TAL SL

Eurofins TestAmerica, St. Louis

Lab Chronicle

Client: Wood E&I Solutions Inc
 Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36995-1

Client Sample ID: WRSB214_3-6

Date Collected: 01/10/20 10:58
 Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			457007	01/16/20 15:30	MLG	TAL SL
Total/NA	Prep	Fill_Geo-21			457261	01/20/20 10:58	LTC	TAL SL
Total/NA	Analysis	901.1		1	459756	02/10/20 20:10	KLS	TAL SL

Client Sample ID: WRSB214_3-6

Date Collected: 01/10/20 10:58
 Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-11

Matrix: Solid

Percent Solids: 95.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			458513	01/29/20 11:13	LAM	TAL SL
Total/NA	Analysis	6020A		2	459867	02/10/20 23:15	FLC	TAL SL

Client Sample ID: WRSB214_6-15

Date Collected: 01/10/20 11:08
 Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457226	01/20/20 06:59	RJD	TAL SL
Total/NA	Leach	Dry and Grind			457007	01/16/20 15:30	MLG	TAL SL
Total/NA	Prep	Fill_Geo-21			457261	01/20/20 10:58	LTC	TAL SL
Total/NA	Analysis	901.1		1	459757	02/10/20 20:11	JFL	TAL SL

Client Sample ID: WRSB214_6-15

Date Collected: 01/10/20 11:08
 Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-12

Matrix: Solid

Percent Solids: 95.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			458513	01/29/20 11:13	LAM	TAL SL
Total/NA	Analysis	6020A		2	459867	02/10/20 23:22	FLC	TAL SL

Client Sample ID: WRSB213_0-0.5

Date Collected: 01/13/20 14:09
 Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457226	01/20/20 06:59	RJD	TAL SL
Total/NA	Leach	Dry and Grind			457007	01/16/20 15:30	MLG	TAL SL
Total/NA	Prep	Fill_Geo-21			457271	01/20/20 11:42	LTC	TAL SL
Total/NA	Analysis	901.1		1	459757	02/10/20 16:39	JFL	TAL SL

Eurofins TestAmerica, St. Louis

Lab Chronicle

Client: Wood E&I Solutions Inc
 Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36995-1

Client Sample ID: WRSB213_0-0.5

Date Collected: 01/13/20 14:09
 Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-13

Matrix: Solid

Percent Solids: 94.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			458513	01/29/20 11:13	LAM	TAL SL
Total/NA	Analysis	6020A		2	459867	02/10/20 23:28	FLC	TAL SL

Client Sample ID: WRSB213_0.5-3

Date Collected: 01/13/20 14:16
 Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457226	01/20/20 06:59	RJD	TAL SL
Total/NA	Leach	Dry and Grind			457007	01/16/20 15:30	MLG	TAL SL
Total/NA	Prep	Fill_Geo-21			457271	01/20/20 11:42	LTC	TAL SL
Total/NA	Analysis	901.1		1	459758	02/10/20 16:41	AJD	TAL SL

Client Sample ID: WRSB213_0.5-3

Date Collected: 01/13/20 14:16
 Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-14

Matrix: Solid

Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			458513	01/29/20 11:13	LAM	TAL SL
Total/NA	Analysis	6020A		2	459867	02/10/20 23:55	FLC	TAL SL

Client Sample ID: WRSB213_3-6

Date Collected: 01/13/20 14:27
 Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457226	01/20/20 06:59	RJD	TAL SL
Total/NA	Leach	Dry and Grind			457007	01/16/20 15:30	MLG	TAL SL
Total/NA	Prep	Fill_Geo-21			457271	01/20/20 11:42	LTC	TAL SL
Total/NA	Analysis	901.1		1	459862	02/10/20 16:38	KLS	TAL SL

Client Sample ID: WRSB213_3-6

Date Collected: 01/13/20 14:27
 Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-15

Matrix: Solid

Percent Solids: 94.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			458513	01/29/20 11:13	LAM	TAL SL
Total/NA	Analysis	6020A		2	459867	02/11/20 00:02	FLC	TAL SL

Client Sample ID: WRSB213_6-15

Date Collected: 01/13/20 14:34
 Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457226	01/20/20 06:59	RJD	TAL SL

Eurofins TestAmerica, St. Louis

Lab Chronicle

Client: Wood E&I Solutions Inc
 Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36995-1

Client Sample ID: WRSB213_6-15

Lab Sample ID: 160-36995-16

Matrix: Solid

Date Collected: 01/13/20 14:34

Date Received: 01/16/20 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			457007	01/16/20 15:30	MLG	TAL SL
Total/NA	Prep	Fill_Geo-21			457271	01/20/20 11:42	LTC	TAL SL
Total/NA	Analysis	901.1		1	459765	02/10/20 17:05	KLS	TAL SL

Client Sample ID: WRSB213_6-15

Lab Sample ID: 160-36995-16

Matrix: Solid

Date Collected: 01/13/20 14:34

Date Received: 01/16/20 09:10 Percent Solids: 94.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			458513	01/29/20 11:13	LAM	TAL SL
Total/NA	Analysis	6020A		2	459867	02/11/20 00:09	FLC	TAL SL

Client Sample ID: WRSB213-FD_6-15

Lab Sample ID: 160-36995-17

Matrix: Solid

Date Collected: 01/13/20 14:46

Date Received: 01/16/20 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457226	01/20/20 06:59	RJD	TAL SL
Total/NA	Leach	Dry and Grind			457007	01/16/20 15:30	MLG	TAL SL
Total/NA	Prep	Fill_Geo-21			457271	01/20/20 11:42	LTC	TAL SL
Total/NA	Analysis	901.1		1	459753	02/10/20 17:05	AJD	TAL SL

Client Sample ID: WRSB213-FD_6-15

Lab Sample ID: 160-36995-17

Matrix: Solid

Date Collected: 01/13/20 14:46 Percent Solids: 94.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			458513	01/29/20 11:13	LAM	TAL SL
Total/NA	Analysis	6020A		2	459867	02/11/20 00:16	FLC	TAL SL

Client Sample ID: WRSB216_0-0.5

Lab Sample ID: 160-36995-18

Matrix: Solid

Date Collected: 01/14/20 08:32

Date Received: 01/16/20 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457226	01/20/20 06:59	RJD	TAL SL
Total/NA	Leach	Dry and Grind			457007	01/16/20 15:30	MLG	TAL SL
Total/NA	Prep	Fill_Geo-21			457271	01/20/20 11:42	LTC	TAL SL
Total/NA	Analysis	901.1		1	459752	02/10/20 17:06	AJD	TAL SL

Eurofins TestAmerica, St. Louis

Lab Chronicle

Client: Wood E&I Solutions Inc
 Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36995-1

Client Sample ID: WRSB216_0-0.5

Date Collected: 01/14/20 08:32
 Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-18

Matrix: Solid

Percent Solids: 94.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			458513	01/29/20 11:13	LAM	TAL SL
Total/NA	Analysis	6020A		2	459867	02/11/20 00:23	FLC	TAL SL

Client Sample ID: WRSB216_0.5-3

Date Collected: 01/14/20 08:42
 Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457226	01/20/20 06:59	RJD	TAL SL
Total/NA	Leach	Dry and Grind			457007	01/16/20 15:30	MLG	TAL SL
Total/NA	Prep	Fill_Geo-21			457271	01/20/20 11:42	LTC	TAL SL
Total/NA	Analysis	901.1		1	459755	02/10/20 17:07	AJD	TAL SL

Client Sample ID: WRSB216_0.5-3

Date Collected: 01/14/20 08:42
 Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-19

Matrix: Solid

Percent Solids: 95.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			458513	01/29/20 11:14	LAM	TAL SL
Total/NA	Analysis	6020A		2	459867	02/11/20 00:29	FLC	TAL SL

Client Sample ID: WRSB216_3-6

Date Collected: 01/14/20 08:49
 Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457226	01/20/20 06:59	RJD	TAL SL
Total/NA	Leach	Dry and Grind			457007	01/16/20 15:30	MLG	TAL SL
Total/NA	Prep	Fill_Geo-21			457271	01/20/20 11:42	LTC	TAL SL
Total/NA	Analysis	901.1		1	459756	02/10/20 17:50	KLS	TAL SL

Client Sample ID: WRSB216_3-6

Date Collected: 01/14/20 08:49
 Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-20

Matrix: Solid

Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			458514	01/29/20 11:15	LAM	TAL SL
Total/NA	Analysis	6020A		2	459787	02/08/20 08:57	FLC	TAL SL

Client Sample ID: WRSB216_6-15

Date Collected: 01/14/20 08:54
 Date Received: 01/16/20 09:10

Lab Sample ID: 160-36995-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457230	01/20/20 07:37	RJD	TAL SL

Eurofins TestAmerica, St. Louis

Lab Chronicle

Client: Wood E&I Solutions Inc
 Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36995-1

Client Sample ID: WRSB216_6-15

Lab Sample ID: 160-36995-21

Matrix: Solid

Date Collected: 01/14/20 08:54

Date Received: 01/16/20 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			457007	01/16/20 15:30	MLG	TAL SL
Total/NA	Prep	Fill_Geo-21			457271	01/20/20 11:42	LTC	TAL SL
Total/NA	Analysis	901.1		1	459757	02/10/20 17:52	JFL	TAL SL

Client Sample ID: WRSB216_6-15

Lab Sample ID: 160-36995-21

Matrix: Solid

Date Collected: 01/14/20 08:54

Date Received: 01/16/20 09:10

Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			458514	01/29/20 11:15	LAM	TAL SL
Total/NA	Analysis	6020A		2	459787	02/08/20 09:51	FLC	TAL SL

Client Sample ID: WRSB208_136.5-141.5

Lab Sample ID: 160-36995-22

Matrix: Solid

Date Collected: 01/09/20 07:50

Date Received: 01/16/20 09:10

Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457230	01/20/20 07:37	RJD	TAL SL
Total/NA	Leach	Dry and Grind			457007	01/16/20 15:30	MLG	TAL SL
Total/NA	Prep	Fill_Geo-21			457271	01/20/20 11:42	LTC	TAL SL
Total/NA	Analysis	901.1		1	459758	02/10/20 17:53	AJD	TAL SL

Client Sample ID: WRSB208_136.5-141.5

Lab Sample ID: 160-36995-22

Matrix: Solid

Date Collected: 01/09/20 07:50

Date Received: 01/16/20 09:10

Percent Solids: 95.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			458514	01/29/20 11:15	LAM	TAL SL
Total/NA	Analysis	6020A		2	459787	02/08/20 09:58	FLC	TAL SL

Client Sample ID: WRSB208_146.5-151.5

Lab Sample ID: 160-36995-23

Matrix: Solid

Date Collected: 01/10/20 10:15

Date Received: 01/16/20 09:10

Percent Solids: 95.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457230	01/20/20 07:37	RJD	TAL SL
Total/NA	Leach	Dry and Grind			457007	01/16/20 15:30	MLG	TAL SL
Total/NA	Prep	Fill_Geo-21			457271	01/20/20 11:42	LTC	TAL SL
Total/NA	Analysis	901.1		1	459862	02/10/20 18:26	KLS	TAL SL

Eurofins TestAmerica, St. Louis

Lab Chronicle

Client: Wood E&I Solutions Inc
 Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36995-1

Client Sample ID: WRSB208_146.5-151.5

Lab Sample ID: 160-36995-23

Date Collected: 01/10/20 10:15
 Date Received: 01/16/20 09:10

Matrix: Solid

Percent Solids: 97.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			458514	01/29/20 11:15	LAM	TAL SL
Total/NA	Analysis	6020A		2	459787	02/08/20 10:05	FLC	TAL SL

Client Sample ID: WRSB215_0-0.5

Lab Sample ID: 160-36995-24

Date Collected: 01/14/20 08:55
 Date Received: 01/16/20 09:10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457230	01/20/20 07:37	RJD	TAL SL
Total/NA	Leach	Dry and Grind			457007	01/16/20 15:30	MLG	TAL SL
Total/NA	Prep	Fill_Geo-21			457271	01/20/20 11:42	LTC	TAL SL
Total/NA	Analysis	901.1		1	459765	02/10/20 17:48	KLS	TAL SL

Client Sample ID: WRSB215_0-0.5

Lab Sample ID: 160-36995-24

Date Collected: 01/14/20 08:55
 Date Received: 01/16/20 09:10

Matrix: Solid

Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			458514	01/29/20 11:15	LAM	TAL SL
Total/NA	Analysis	6020A		2	459787	02/08/20 10:11	FLC	TAL SL

Client Sample ID: WRSB215_0.5-3

Lab Sample ID: 160-36995-25

Date Collected: 01/14/20 09:02
 Date Received: 01/16/20 09:10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457230	01/20/20 07:37	RJD	TAL SL
Total/NA	Leach	Dry and Grind			457007	01/16/20 15:36	MLG	TAL SL
Total/NA	Prep	Fill_Geo-21			457271	01/20/20 11:42	LTC	TAL SL
Total/NA	Analysis	901.1		1	459752	02/10/20 17:51	AJD	TAL SL

Client Sample ID: WRSB215_0.5-3

Lab Sample ID: 160-36995-25

Date Collected: 01/14/20 09:02
 Date Received: 01/16/20 09:10

Matrix: Solid

Percent Solids: 94.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			458514	01/29/20 11:15	LAM	TAL SL
Total/NA	Analysis	6020A		2	459787	02/08/20 10:18	FLC	TAL SL

Client Sample ID: WRSB215_3-6

Lab Sample ID: 160-36995-26

Date Collected: 01/14/20 09:12
 Date Received: 01/16/20 09:10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457230	01/20/20 07:37	RJD	TAL SL

Eurofins TestAmerica, St. Louis

Lab Chronicle

Client: Wood E&I Solutions Inc
 Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36995-1

Client Sample ID: WRSB215_3-6

Lab Sample ID: 160-36995-26

Matrix: Solid

Date Collected: 01/14/20 09:12

Date Received: 01/16/20 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			457007	01/16/20 15:36	MLG	TAL SL
Total/NA	Prep	Fill_Geo-21			457271	01/20/20 11:42	LTC	TAL SL
Total/NA	Analysis	901.1		1	459753	02/10/20 18:25	AJD	TAL SL

Client Sample ID: WRSB215_3-6

Lab Sample ID: 160-36995-26

Matrix: Solid

Date Collected: 01/14/20 09:12

Date Received: 01/16/20 09:10 Percent Solids: 94.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			458514	01/29/20 11:15	LAM	TAL SL
Total/NA	Analysis	6020A		2	459787	02/08/20 10:25	FLC	TAL SL

Client Sample ID: WRSB215_6-15

Lab Sample ID: 160-36995-27

Matrix: Solid

Date Collected: 01/14/20 09:25

Date Received: 01/16/20 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	457230	01/20/20 07:37	RJD	TAL SL
Total/NA	Leach	Dry and Grind			457007	01/16/20 15:36	MLG	TAL SL
Total/NA	Prep	Fill_Geo-21			457271	01/20/20 11:42	LTC	TAL SL
Total/NA	Analysis	901.1		1	459752	02/10/20 18:26	AJD	TAL SL

Client Sample ID: WRSB215_6-15

Lab Sample ID: 160-36995-27

Matrix: Solid

Date Collected: 01/14/20 09:25

Date Received: 01/16/20 09:10 Percent Solids: 95.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			458514	01/29/20 11:16	LAM	TAL SL
Total/NA	Analysis	6020A		2	459787	02/08/20 10:31	FLC	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Eurofins TestAmerica, St. Louis

Accreditation/Certification Summary

Client: Wood E&I Solutions Inc

Job ID: 160-36995-1

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Laboratory: Eurofins TestAmerica, St. Louis

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Louisiana	NELAP	04080	06-30-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6020A	3050B	Solid	Thorium
6020A	3050B	Solid	Uranium
901.1	Fill_Geo-21	Solid	Radium-226
901.1	Fill_Geo-21	Solid	Radium-228
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids
Nevada	State		MO000542020-1
			07-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6020A	3050B	Solid	Thorium
6020A	3050B	Solid	Uranium
901.1	Fill_Geo-21	Solid	Radium-226
901.1	Fill_Geo-21	Solid	Radium-228
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Wood E&I Solutions Inc

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36995-1

Method	Method Description	Protocol	Laboratory
6020A	Metals (ICP/MS)	SW846	TAL SL
Moisture	Percent Moisture	EPA	TAL SL
901.1	Radium-226 & Other Gamma Emitters (GS)	EPA	TAL SL
3050B	Preparation, Metals	SW846	TAL SL
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Wood E&I Solutions Inc

Job ID: 160-36995-1

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
160-36995-1	WRSB225_0-0.5	Solid	01/09/20 13:27	01/16/20 09:10	
160-36995-2	WRSB225_0.5-3	Solid	01/09/20 13:33	01/16/20 09:10	
160-36995-3	WRSB225_3-6	Solid	01/09/20 13:42	01/16/20 09:10	
160-36995-4	WRSB225_6-15	Solid	01/09/20 13:49	01/16/20 09:10	
160-36995-5	WRSB221_0-0.5	Solid	01/10/20 09:12	01/16/20 09:10	
160-36995-6	WRSB221_0.5-3	Solid	01/10/20 09:17	01/16/20 09:10	
160-36995-7	WRSB221_3-6	Solid	01/10/20 09:28	01/16/20 09:10	
160-36995-8	WRSB221_6-15	Solid	01/10/20 09:35	01/16/20 09:10	
160-36995-9	WRSB214_0-0.5	Solid	01/10/20 10:40	01/16/20 09:10	
160-36995-10	WRSB214_0.5-3	Solid	01/10/20 10:49	01/16/20 09:10	
160-36995-11	WRSB214_3-6	Solid	01/10/20 10:58	01/16/20 09:10	
160-36995-12	WRSB214_6-15	Solid	01/10/20 11:08	01/16/20 09:10	
160-36995-13	WRSB213_0-0.5	Solid	01/13/20 14:09	01/16/20 09:10	
160-36995-14	WRSB213_0.5-3	Solid	01/13/20 14:16	01/16/20 09:10	
160-36995-15	WRSB213_3-6	Solid	01/13/20 14:27	01/16/20 09:10	
160-36995-16	WRSB213_6-15	Solid	01/13/20 14:34	01/16/20 09:10	
160-36995-17	WRSB213-FD_6-15	Solid	01/13/20 14:46	01/16/20 09:10	
160-36995-18	WRSB216_0-0.5	Solid	01/14/20 08:32	01/16/20 09:10	
160-36995-19	WRSB216_0.5-3	Solid	01/14/20 08:42	01/16/20 09:10	
160-36995-20	WRSB216_3-6	Solid	01/14/20 08:49	01/16/20 09:10	
160-36995-21	WRSB216_6-15	Solid	01/14/20 08:54	01/16/20 09:10	
160-36995-22	WRSB208_136.5-141.5	Solid	01/09/20 07:50	01/16/20 09:10	
160-36995-23	WRSB208_146.5-151.5	Solid	01/10/20 10:15	01/16/20 09:10	
160-36995-24	WRSB215_0-0.5	Solid	01/14/20 08:55	01/16/20 09:10	
160-36995-25	WRSB215_0.5-3	Solid	01/14/20 09:02	01/16/20 09:10	
160-36995-26	WRSB215_3-6	Solid	01/14/20 09:12	01/16/20 09:10	
160-36995-27	WRSB215_6-15	Solid	01/14/20 09:25	01/16/20 09:10	

Eurofins TestAmerica, St. Louis



Laboratory Management Program L

BP/ARC Site Node Path: NV_YERINGTON

BP/ARC Facility Name: Anaconda Copper Mine Site

L a b o r a t o r y M a n a g e m e n t P r o g r a m L a M P Chain of Custody Record

BB/ABC Site Node Path: NV YEBINGTON

BP/ARC Facility Name: Anaconda Copper Mine Site

Page 1 of 4

Page 39 of 59

14 Special Instructions:

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No
Temp Blank: Yes / No
Cooler Temp on Receipt: _____ °F/C
Trip Blank: Yes / No
MS/MSD Sample Submitted: Yes / No

BP/ARC LaMP COC Rev. 7, Jul 29, 2010



Laboratory Management Program LAMP Chain of Custody Record

BP/ARC Site Node Path: NV_YERINGTON

BP/ARC Facility Name: Anaconda Copper Mine Site

Req Due Date (mm/dd/yy):

Lab Work Order Number:

STD TAT

Rush TAT: Yes No Page 2 of 4

Sample Description		Date	Time	Soil / Solid	Air / Vapor	Water / Liquid	Total Number of Containers	HNO ₃	H ₂ SO ₄	Unpreserved	Matrix	No. Containers / Preservative	Requested Analyses	Report Type & QC Level					
WHSB214 3-6	01/10/20	1058	X				2	2							Standard <input checked="" type="checkbox"/>				
WHSB214 4-15	01/10/20	1108	X				2	2							Full Data Package <input type="checkbox"/>				
WHSB213 0-0.5	01/13/20	1409	X				2	2							Comments Note: If sample not collected, indicate "No Sample" in comments and single-strike out and initial any preprinted sample description.				
WHSB213 0.5-3	01/13/20	1416	X				2	2							Report soil on dry weight basis.				
WHSB213-10.5-3	01/13/20	1420	X				2	2	B-3-01/13/20										
WHSB213 3-6	01/13/20	1427	X				2	2											
WHSB213 6-15	01/13/20	1434	X				2	2											
WHSB213-FD 6-15	01/13/20	1446	X				2	2											
WHSB216 0-0.5	01/14/20	0832	X				2	2											
WHSB216 0.5-3	01/14/20	0842	X				2	2											
Samplers Name: Kaylee Penneill														Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Samplers Company: Wood														Jeanne Wood	11/14/20	1500	Jeanne Wood	11/15/20	000
Shipment Method: FedEx														Ship Date: 1/15/20					
Shipment Tracking No: 7774 1317 5881 0310 7774 1318 6570																			
Special Instructions:																			
THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No														Temp Blank: Yes / No		Cooler Temp on Receipt: _____ °F/C	Trip Blank: Yes / No		MS/MSD Sample Submitted: Yes / No

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Login Sample Receipt Checklist

Client: Wood E&I Solutions Inc

Job Number: 160-36995-1

Login Number: 36995

List Source: Eurofins TestAmerica, St. Louis

List Number: 1

Creator: McKinney, Gerrod E

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Internal Chain of Custody Tracking

Login	Smp	Customer Sample ID	Matrix	Container ID	Lab Sample ID	Container Type	Location	Custody User	I/O ICOC ID	ICOC Date
160-36995	1	WRSB225_0-0.5	Solid	160-1863364	160-36995-A-1	Soil jar 4oz	2-3	Mazariegos, Leonel I	160-190770	01/30/20 13:07
160-36995	1	WRSB225_0-0.5	Solid	160-1863364	160-36995-A-1	Soil jar 4oz	METALS	Mazariegos, Leonel I	160-190707	01/29/20 10:50
160-36995	1	WRSB225_0-0.5	Solid	160-1863364	160-36995-A-1	Soil jar 4oz	2-3	Domalewski, Ryan I	160-190033	01/20/20 08:37
160-36995	1	WRSB225_0-0.5	Solid	160-1863364	160-36995-A-1	Soil jar 4oz	RAD	Domalewski, Ryan I	160-190030	01/20/20 07:05
160-36995	1	WRSB225_0-0.5	Solid	160-1863365	160-36995-B-1	Plastic Bag - 500g	Pre-Prep	Geer, Matthew L I	160-189956	01/16/20 15:15
160-36995	2	WRSB225_0.5-3	Solid	160-1863366	160-36995-A-2	Soil jar 4oz	2-3	Mazariegos, Leonel I	160-190770	01/30/20 13:07
160-36995	2	WRSB225_0.5-3	Solid	160-1863366	160-36995-A-2	Soil jar 4oz	METALS	Mazariegos, Leonel I	160-190707	01/29/20 10:50
160-36995	2	WRSB225_0.5-3	Solid	160-1863366	160-36995-A-2	Soil jar 4oz	2-3	Domalewski, Ryan I	160-190033	01/20/20 08:37
160-36995	2	WRSB225_0.5-3	Solid	160-1863366	160-36995-A-2	Soil jar 4oz	RAD	Domalewski, Ryan I	160-190030	01/20/20 07:05
160-36995	2	WRSB225_0.5-3	Solid	160-1863367	160-36995-B-2	Plastic Bag - 500g	Pre-Prep	Geer, Matthew L I	160-189956	01/16/20 15:15
160-36995	3	WRSB225_3-6	Solid	160-1863368	160-36995-A-3	Soil jar 4oz	2-3	Mazariegos, Leonel I	160-190770	01/30/20 13:07
160-36995	3	WRSB225_3-6	Solid	160-1863368	160-36995-A-3	Soil jar 4oz	METALS	Mazariegos, Leonel I	160-190707	01/29/20 10:50
160-36995	3	WRSB225_3-6	Solid	160-1863368	160-36995-A-3	Soil jar 4oz	2-3	Domalewski, Ryan I	160-190033	01/20/20 08:37
160-36995	3	WRSB225_3-6	Solid	160-1863368	160-36995-A-3	Soil jar 4oz	RAD	Domalewski, Ryan I	160-190030	01/20/20 07:05
160-36995	3	WRSB225_3-6	Solid	160-1863369	160-36995-B-3	Plastic Bag - 500g	Pre-Prep	Geer, Matthew L I	160-189956	01/16/20 15:15
160-36995	4	WRSB225_6-15	Solid	160-1863370	160-36995-A-4	Soil jar 4oz	2-3	Mazariegos, Leonel I	160-190770	01/30/20 13:07
160-36995	4	WRSB225_6-15	Solid	160-1863370	160-36995-A-4	Soil jar 4oz	METALS	Mazariegos, Leonel I	160-190707	01/29/20 10:50
160-36995	4	WRSB225_6-15	Solid	160-1863370	160-36995-A-4	Soil jar 4oz	2-3	Domalewski, Ryan I	160-190033	01/20/20 08:37
160-36995	4	WRSB225_6-15	Solid	160-1863370	160-36995-A-4	Soil jar 4oz	RAD	Domalewski, Ryan I	160-190030	01/20/20 07:05
160-36995	4	WRSB225_6-15	Solid	160-1863371	160-36995-B-4	Plastic Bag - 500g	Pre-Prep	Geer, Matthew L I	160-189956	01/16/20 15:15
160-36995	5	WRSB221_0-0.5	Solid	160-1863372	160-36995-A-5	Soil jar 4oz	2-3	Mazariegos, Leonel I	160-190770	01/30/20 13:07
160-36995	5	WRSB221_0-0.5	Solid	160-1863372	160-36995-A-5	Soil jar 4oz	METALS	Mazariegos, Leonel I	160-190707	01/29/20 10:50
160-36995	5	WRSB221_0-0.5	Solid	160-1863372	160-36995-A-5	Soil jar 4oz	2-3	Domalewski, Ryan I	160-190033	01/20/20 08:37
160-36995	5	WRSB221_0-0.5	Solid	160-1863372	160-36995-A-5	Soil jar 4oz	RAD	Domalewski, Ryan I	160-190030	01/20/20 07:05
160-36995	5	WRSB221_0-0.5	Solid	160-1863373	160-36995-B-5	Plastic Bag - 500g	Pre-Prep	Geer, Matthew L I	160-189956	01/16/20 15:15
160-36995	6	WRSB221_0.5-3	Solid	160-1863374	160-36995-A-6	Soil jar 4oz	2-3	Mazariegos, Leonel I	160-190770	01/30/20 13:07
160-36995	6	WRSB221_0.5-3	Solid	160-1863374	160-36995-A-6	Soil jar 4oz	METALS	Mazariegos, Leonel I	160-190707	01/29/20 10:50
160-36995	6	WRSB221_0.5-3	Solid	160-1863374	160-36995-A-6	Soil jar 4oz	2-3	Domalewski, Ryan I	160-190033	01/20/20 08:37
160-36995	6	WRSB221_0.5-3	Solid	160-1863374	160-36995-A-6	Soil jar 4oz	RAD	Domalewski, Ryan I	160-190030	01/20/20 07:05
160-36995	6	WRSB221_0.5-3	Solid	160-1863375	160-36995-B-6	Plastic Bag - 500g	Pre-Prep	Geer, Matthew L I	160-189956	01/16/20 15:15
160-36995	7	WRSB221_3-6	Solid	160-1863376	160-36995-A-7	Soil jar 4oz	2-3	Mazariegos, Leonel I	160-190770	01/30/20 13:07
160-36995	7	WRSB221_3-6	Solid	160-1863376	160-36995-A-7	Soil jar 4oz	METALS	Mazariegos, Leonel I	160-190707	01/29/20 10:50
160-36995	7	WRSB221_3-6	Solid	160-1863376	160-36995-A-7	Soil jar 4oz	2-3	Domalewski, Ryan I	160-190033	01/20/20 08:37
160-36995	7	WRSB221_3-6	Solid	160-1863376	160-36995-A-7	Soil jar 4oz	RAD	Domalewski, Ryan I	160-190030	01/20/20 07:05
160-36995	7	WRSB221_3-6	Solid	160-1863377	160-36995-B-7	Plastic Bag - 500g	Pre-Prep	Geer, Matthew L I	160-189956	01/16/20 15:15
160-36995	8	WRSB221_6-15	Solid	160-1863378	160-36995-A-8	Soil jar 4oz	2-3	Mazariegos, Leonel I	160-190770	01/30/20 13:07
160-36995	8	WRSB221_6-15	Solid	160-1863378	160-36995-A-8	Soil jar 4oz	METALS	Mazariegos, Leonel I	160-190707	01/29/20 10:50
160-36995	8	WRSB221_6-15	Solid	160-1863378	160-36995-A-8	Soil jar 4oz	2-3	Domalewski, Ryan I	160-190033	01/20/20 08:37
160-36995	8	WRSB221_6-15	Solid	160-1863378	160-36995-A-8	Soil jar 4oz	RAD	Domalewski, Ryan I	160-190030	01/20/20 07:05
160-36995	8	WRSB221_6-15	Solid	160-1863379	160-36995-B-8	Plastic Bag - 500g	Pre-Prep	Geer, Matthew L I	160-189956	01/16/20 15:15

Internal Chain of Custody Tracking

Login	Smp	Customer Sample ID	Matrix	Container ID	Lab Sample ID	Container Type	Location	Custody User	I/O ICOC ID	ICOC Date
160-36995	9	WRSB214_0-0.5	Solid	160-1863380	160-36995-A-9	Soil jar 4oz	2-3	Mazariegos, Leonel I	160-190770	01/30/20 13:07
160-36995	9	WRSB214_0-0.5	Solid	160-1863380	160-36995-A-9	Soil jar 4oz	METALS	Mazariegos, Leonel I	160-190707	01/29/20 10:50
160-36995	9	WRSB214_0-0.5	Solid	160-1863380	160-36995-A-9	Soil jar 4oz	2-3	Domalewski, Ryan I	160-190033	01/20/20 08:37
160-36995	9	WRSB214_0-0.5	Solid	160-1863380	160-36995-A-9	Soil jar 4oz	RAD	Domalewski, Ryan I	160-190030	01/20/20 07:05
160-36995	9	WRSB214_0-0.5	Solid	160-1863381	160-36995-B-9	Plastic Bag - 500g	Pre-Prep	Geer, Matthew L I	160-189956	01/16/20 15:15
160-36995	10	WRSB214_0.5-3	Solid	160-1863382	160-36995-A-10	Soil jar 4oz	2-3	Mazariegos, Leonel I	160-190770	01/30/20 13:07
160-36995	10	WRSB214_0.5-3	Solid	160-1863382	160-36995-A-10	Soil jar 4oz	METALS	Mazariegos, Leonel I	160-190707	01/29/20 10:50
160-36995	10	WRSB214_0.5-3	Solid	160-1863382	160-36995-A-10	Soil jar 4oz	2-3	Domalewski, Ryan I	160-190033	01/20/20 08:37
160-36995	10	WRSB214_0.5-3	Solid	160-1863382	160-36995-A-10	Soil jar 4oz	RAD	Domalewski, Ryan I	160-190030	01/20/20 07:05
160-36995	10	WRSB214_0.5-3	Solid	160-1863423	160-36995-A-10	Soil jar 4oz	2-3	Mazariegos, Leonel I	160-190770	01/30/20 13:07
160-36995	10	WRSB214_0.5-3	Solid	160-1863423	160-36995-A-10	Soil jar 4oz	METALS	Mazariegos, Leonel I	160-190707	01/29/20 10:50
160-36995	10	WRSB214_0.5-3	Solid	160-1863423	160-36995-A-10	Soil jar 4oz	2-3	Domalewski, Ryan I	160-190033	01/20/20 08:37
160-36995	10	WRSB214_0.5-3	Solid	160-1863423	160-36995-A-10	Soil jar 4oz	RAD	Domalewski, Ryan I	160-190030	01/20/20 07:05
160-36995	10	WRSB214_0.5-3	Solid	160-1863425	160-36995-A-10	No Container	2-3	Mazariegos, Leonel I	160-190770	01/30/20 13:07
160-36995	10	WRSB214_0.5-3	Solid	160-1863425	160-36995-A-10	No Container	METALS	Mazariegos, Leonel I	160-190707	01/29/20 10:50
160-36995	10	WRSB214_0.5-3	Solid	160-1863425	160-36995-A-10	No Container	2-3	Domalewski, Ryan I	160-190033	01/20/20 08:37
160-36995	10	WRSB214_0.5-3	Solid	160-1863425	160-36995-A-10	No Container	RAD	Domalewski, Ryan I	160-190030	01/20/20 07:05
160-36995	10	WRSB214_0.5-3	Solid	160-1863427	160-36995-A-10	No Container	2-3	Mazariegos, Leonel I	160-190770	01/30/20 13:07
160-36995	10	WRSB214_0.5-3	Solid	160-1863427	160-36995-A-10	No Container	METALS	Mazariegos, Leonel I	160-190707	01/29/20 10:50
160-36995	10	WRSB214_0.5-3	Solid	160-1863427	160-36995-A-10	No Container	2-3	Domalewski, Ryan I	160-190033	01/20/20 08:37
160-36995	10	WRSB214_0.5-3	Solid	160-1863427	160-36995-A-10	No Container	RAD	Domalewski, Ryan I	160-190030	01/20/20 07:05
160-36995	10	WRSB214_0.5-3	Solid	160-1863427	160-36995-A-10	No Container	2-3	Mazariegos, Leonel I	160-190770	01/30/20 13:07
160-36995	10	WRSB214_0.5-3	Solid	160-1863427	160-36995-A-10	No Container	METALS	Mazariegos, Leonel I	160-190707	01/29/20 10:50
160-36995	10	WRSB214_0.5-3	Solid	160-1863427	160-36995-A-10	No Container	2-3	Domalewski, Ryan I	160-190033	01/20/20 08:37
160-36995	10	WRSB214_0.5-3	Solid	160-1863427	160-36995-A-10	No Container	RAD	Domalewski, Ryan I	160-190030	01/20/20 07:05
160-36995	10	WRSB214_0.5-3	Solid	160-1863383	160-36995-B-10	Plastic Bag - 500g	Pre-Prep	Geer, Matthew L I	160-189956	01/16/20 15:15
160-36995	10	WRSB214_0.5-3	Solid	160-1863424	160-36995-B-10	Plastic Bag - 500g	Pre-Prep	Geer, Matthew L I	160-189956	01/16/20 15:15
160-36995	10	WRSB214_0.5-3	Solid	160-1863426	160-36995-B-10	No Container	Pre-Prep	Geer, Matthew L I	160-189956	01/16/20 15:15
160-36995	10	WRSB214_0.5-3	Solid	160-1863428	160-36995-B-10	No Container	Pre-Prep	Geer, Matthew L I	160-189956	01/16/20 15:15
160-36995	11	WRSB214_3-6	Solid	160-1863384	160-36995-A-11	Soil jar 4oz	2-3	Mazariegos, Leonel I	160-190770	01/30/20 13:07
160-36995	11	WRSB214_3-6	Solid	160-1863384	160-36995-A-11	Soil jar 4oz	METALS	Mazariegos, Leonel I	160-190707	01/29/20 10:50
160-36995	11	WRSB214_3-6	Solid	160-1863384	160-36995-A-11	Soil jar 4oz	2-3	Domalewski, Ryan I	160-190033	01/20/20 08:37
160-36995	11	WRSB214_3-6	Solid	160-1863384	160-36995-A-11	Soil jar 4oz	RAD	Domalewski, Ryan I	160-190030	01/20/20 07:05
160-36995	11	WRSB214_3-6	Solid	160-1863385	160-36995-B-11	Plastic Bag - 500g	Pre-Prep	Geer, Matthew L I	160-189956	01/16/20 15:15
160-36995	12	WRSB214_6-15	Solid	160-1863386	160-36995-A-12	Soil jar 4oz	2-3	Mazariegos, Leonel I	160-190770	01/30/20 13:07
160-36995	12	WRSB214_6-15	Solid	160-1863386	160-36995-A-12	Soil jar 4oz	METALS	Mazariegos, Leonel I	160-190707	01/29/20 10:50
160-36995	12	WRSB214_6-15	Solid	160-1863386	160-36995-A-12	Soil jar 4oz	2-3	Domalewski, Ryan I	160-190033	01/20/20 08:37
160-36995	12	WRSB214_6-15	Solid	160-1863386	160-36995-A-12	Soil jar 4oz	RAD	Domalewski, Ryan I	160-190030	01/20/20 07:05
160-36995	12	WRSB214_6-15	Solid	160-1863387	160-36995-B-12	Plastic Bag - 500g	Pre-Prep	Geer, Matthew L I	160-189956	01/16/20 15:15
160-36995	13	WRSB213_0-0.5	Solid	160-1863388	160-36995-A-13	Soil jar 4oz	2-3	Mazariegos, Leonel I	160-190770	01/30/20 13:07
160-36995	13	WRSB213_0-0.5	Solid	160-1863388	160-36995-A-13	Soil jar 4oz	METALS	Mazariegos, Leonel I	160-190707	01/29/20 10:50
160-36995	13	WRSB213_0-0.5	Solid	160-1863388	160-36995-A-13	Soil jar 4oz	2-3	Domalewski, Ryan I	160-190033	01/20/20 08:37
160-36995	13	WRSB213_0-0.5	Solid	160-1863388	160-36995-A-13	Soil jar 4oz	RAD	Domalewski, Ryan I	160-190030	01/20/20 07:05
160-36995	13	WRSB213_0-0.5	Solid	160-1863389	160-36995-B-13	Plastic Bag - 500g	Pre-Prep	Geer, Matthew L I	160-189956	01/16/20 15:15

Internal Chain of Custody Tracking

Login	Smp	Customer Sample ID	Matrix	Container ID	Lab Sample ID	Container Type	Location	Custody User	I/O ICOC ID	ICOC Date
160-36995	14	WRSB213_0.5-3	Solid	160-1863390	160-36995-A-14	Soil jar 4oz	2-3	Mazariegos, Leonel I	160-190770	01/30/20 13:07
160-36995	14	WRSB213_0.5-3	Solid	160-1863390	160-36995-A-14	Soil jar 4oz	METALS	Mazariegos, Leonel I	160-190707	01/29/20 10:50
160-36995	14	WRSB213_0.5-3	Solid	160-1863390	160-36995-A-14	Soil jar 4oz	2-3	Domalewski, Ryan I	160-190033	01/20/20 08:37
160-36995	14	WRSB213_0.5-3	Solid	160-1863390	160-36995-A-14	Soil jar 4oz	RAD	Domalewski, Ryan I	160-190030	01/20/20 07:05
160-36995	14	WRSB213_0.5-3	Solid	160-1863391	160-36995-B-14	Plastic Bag - 500g	Pre-Prep	Geer, Matthew L I	160-189956	01/16/20 15:15
160-36995	15	WRSB213_3-6	Solid	160-1863392	160-36995-A-15	Soil jar 4oz	2-3	Mazariegos, Leonel I	160-190770	01/30/20 13:07
160-36995	15	WRSB213_3-6	Solid	160-1863392	160-36995-A-15	Soil jar 4oz	METALS	Mazariegos, Leonel I	160-190707	01/29/20 10:50
160-36995	15	WRSB213_3-6	Solid	160-1863392	160-36995-A-15	Soil jar 4oz	2-3	Domalewski, Ryan I	160-190033	01/20/20 08:37
160-36995	15	WRSB213_3-6	Solid	160-1863392	160-36995-A-15	Soil jar 4oz	RAD	Domalewski, Ryan I	160-190030	01/20/20 07:05
160-36995	15	WRSB213_3-6	Solid	160-1863393	160-36995-B-15	Plastic Bag - 500g	Pre-Prep	Geer, Matthew L I	160-189956	01/16/20 15:15
160-36995	16	WRSB213_6-15	Solid	160-1863394	160-36995-A-16	Soil jar 4oz	2-3	Mazariegos, Leonel I	160-190770	01/30/20 13:07
160-36995	16	WRSB213_6-15	Solid	160-1863394	160-36995-A-16	Soil jar 4oz	METALS	Mazariegos, Leonel I	160-190707	01/29/20 10:50
160-36995	16	WRSB213_6-15	Solid	160-1863394	160-36995-A-16	Soil jar 4oz	2-3	Domalewski, Ryan I	160-190033	01/20/20 08:37
160-36995	16	WRSB213_6-15	Solid	160-1863394	160-36995-A-16	Soil jar 4oz	RAD	Domalewski, Ryan I	160-190030	01/20/20 07:05
160-36995	16	WRSB213_6-15	Solid	160-1863395	160-36995-B-16	Plastic Bag - 500g	Pre-Prep	Geer, Matthew L I	160-189956	01/16/20 15:15
160-36995	17	WRSB213-FD_6-15	Solid	160-1863396	160-36995-A-17	Soil jar 4oz	2-3	Mazariegos, Leonel I	160-190770	01/30/20 13:07
160-36995	17	WRSB213-FD_6-15	Solid	160-1863396	160-36995-A-17	Soil jar 4oz	METALS	Mazariegos, Leonel I	160-190707	01/29/20 10:50
160-36995	17	WRSB213-FD_6-15	Solid	160-1863396	160-36995-A-17	Soil jar 4oz	2-3	Domalewski, Ryan I	160-190033	01/20/20 08:37
160-36995	17	WRSB213-FD_6-15	Solid	160-1863396	160-36995-A-17	Soil jar 4oz	RAD	Domalewski, Ryan I	160-190030	01/20/20 07:05
160-36995	17	WRSB213-FD_6-15	Solid	160-1863397	160-36995-B-17	Plastic Bag - 500g	Pre-Prep	Geer, Matthew L I	160-189956	01/16/20 15:15
160-36995	18	WRSB216_0-0.5	Solid	160-1863398	160-36995-A-18	Soil jar 4oz	2-3	Mazariegos, Leonel I	160-190770	01/30/20 13:07
160-36995	18	WRSB216_0-0.5	Solid	160-1863398	160-36995-A-18	Soil jar 4oz	METALS	Mazariegos, Leonel I	160-190707	01/29/20 10:50
160-36995	18	WRSB216_0-0.5	Solid	160-1863398	160-36995-A-18	Soil jar 4oz	2-3	Domalewski, Ryan I	160-190033	01/20/20 08:37
160-36995	18	WRSB216_0-0.5	Solid	160-1863398	160-36995-A-18	Soil jar 4oz	RAD	Domalewski, Ryan I	160-190030	01/20/20 07:05
160-36995	18	WRSB216_0-0.5	Solid	160-1863399	160-36995-B-18	Plastic Bag - 500g	Pre-Prep	Geer, Matthew L I	160-189956	01/16/20 15:15
160-36995	19	WRSB216_0.5-3	Solid	160-1863400	160-36995-A-19	Soil jar 4oz	2-3	Mazariegos, Leonel I	160-190770	01/30/20 13:07
160-36995	19	WRSB216_0.5-3	Solid	160-1863400	160-36995-A-19	Soil jar 4oz	METALS	Mazariegos, Leonel I	160-190707	01/29/20 10:50
160-36995	19	WRSB216_0.5-3	Solid	160-1863400	160-36995-A-19	Soil jar 4oz	2-3	Domalewski, Ryan I	160-190033	01/20/20 08:37
160-36995	19	WRSB216_0.5-3	Solid	160-1863400	160-36995-A-19	Soil jar 4oz	RAD	Domalewski, Ryan I	160-190030	01/20/20 07:05
160-36995	19	WRSB216_0.5-3	Solid	160-1863401	160-36995-B-19	Plastic Bag - 500g	Pre-Prep	Geer, Matthew L I	160-189956	01/16/20 15:15
160-36995	20	WRSB216_3-6	Solid	160-1863402	160-36995-A-20	Soil jar 4oz	2-3	Mazariegos, Leonel I	160-190770	01/30/20 13:07
160-36995	20	WRSB216_3-6	Solid	160-1863402	160-36995-A-20	Soil jar 4oz	METALS	Mazariegos, Leonel I	160-190707	01/29/20 10:50
160-36995	20	WRSB216_3-6	Solid	160-1863402	160-36995-A-20	Soil jar 4oz	2-3	Domalewski, Ryan I	160-190033	01/20/20 08:37
160-36995	20	WRSB216_3-6	Solid	160-1863402	160-36995-A-20	Soil jar 4oz	RAD	Domalewski, Ryan I	160-190030	01/20/20 07:05
160-36995	20	WRSB216_3-6	Solid	160-1863403	160-36995-B-20	Plastic Bag - 500g	Pre-Prep	Geer, Matthew L I	160-189956	01/16/20 15:15
160-36995	21	WRSB216_6-15	Solid	160-1863404	160-36995-A-21	Soil jar 4oz	2-3	Mazariegos, Leonel I	160-190770	01/30/20 13:07
160-36995	21	WRSB216_6-15	Solid	160-1863404	160-36995-A-21	Soil jar 4oz	METALS	Mazariegos, Leonel I	160-190707	01/29/20 10:50
160-36995	21	WRSB216_6-15	Solid	160-1863404	160-36995-A-21	Soil jar 4oz	2-3	Domalewski, Ryan I	160-190033	01/20/20 08:37
160-36995	21	WRSB216_6-15	Solid	160-1863404	160-36995-A-21	Soil jar 4oz	RAD	Domalewski, Ryan I	160-190030	01/20/20 07:05
160-36995	21	WRSB216_6-15	Solid	160-1863405	160-36995-B-21	Plastic Bag - 500g	Pre-Prep	Geer, Matthew L I	160-189956	01/16/20 15:15

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Internal Chain of Custody Tracking

Login	Smp	Customer Sample ID	Matrix	Container ID	Lab Sample ID	Container Type	Location	Custody User	I/O	ICOC ID	ICOC Date
160-36995	22	WRSB208_136.5-141.	Solid	160-1863406	160-36995-A-22	Soil jar 4oz	2-3	Mazariegos, Leonel I	I	160-190770	01/30/20 13:07
160-36995	22	WRSB208_136.5-141.	Solid	160-1863406	160-36995-A-22	Soil jar 4oz	METALS	Mazariegos, Leonel I	I	160-190707	01/29/20 10:50
160-36995	22	WRSB208_136.5-141.	Solid	160-1863406	160-36995-A-22	Soil jar 4oz	2-3	Domalewski, Ryan I	I	160-190033	01/20/20 08:37
160-36995	22	WRSB208_136.5-141.	Solid	160-1863406	160-36995-A-22	Soil jar 4oz	RAD	Domalewski, Ryan I	I	160-190030	01/20/20 07:05
160-36995	22	WRSB208_136.5-141.	Solid	160-1863407	160-36995-B-22	Plastic Bag - 500g	Pre-Prep	Geer, Matthew L I	I	160-189956	01/16/20 15:15
160-36995	23	WRSB208_146.5-151.	Solid	160-1863408	160-36995-A-23	Soil jar 4oz	2-3	Mazariegos, Leonel I	I	160-190770	01/30/20 13:07
160-36995	23	WRSB208_146.5-151.	Solid	160-1863408	160-36995-A-23	Soil jar 4oz	METALS	Mazariegos, Leonel I	I	160-190707	01/29/20 10:50
160-36995	23	WRSB208_146.5-151.	Solid	160-1863408	160-36995-A-23	Soil jar 4oz	2-3	Domalewski, Ryan I	I	160-190033	01/20/20 08:37
160-36995	23	WRSB208_146.5-151.	Solid	160-1863408	160-36995-A-23	Soil jar 4oz	RAD	Domalewski, Ryan I	I	160-190030	01/20/20 07:05
160-36995	23	WRSB208_146.5-151.	Solid	160-1863409	160-36995-B-23	Plastic Bag - 500g	Pre-Prep	Geer, Matthew L I	I	160-189956	01/16/20 15:15
160-36995	24	WRSB215_0-0.5	Solid	160-1863410	160-36995-A-24	Soil jar 4oz	2-3	Mazariegos, Leonel I	I	160-190770	01/30/20 13:07
160-36995	24	WRSB215_0-0.5	Solid	160-1863410	160-36995-A-24	Soil jar 4oz	METALS	Mazariegos, Leonel I	I	160-190707	01/29/20 10:50
160-36995	24	WRSB215_0-0.5	Solid	160-1863410	160-36995-A-24	Soil jar 4oz	2-3	Domalewski, Ryan I	I	160-190033	01/20/20 08:37
160-36995	24	WRSB215_0-0.5	Solid	160-1863410	160-36995-A-24	Soil jar 4oz	RAD	Domalewski, Ryan I	I	160-190030	01/20/20 07:05
160-36995	24	WRSB215_0-0.5	Solid	160-1863411	160-36995-B-24	Plastic Bag - 500g	Pre-Prep	Geer, Matthew L I	I	160-189956	01/16/20 15:15
160-36995	25	WRSB215_0.5-3	Solid	160-1863412	160-36995-A-25	Soil jar 4oz	2-3	Mazariegos, Leonel I	I	160-190770	01/30/20 13:07
160-36995	25	WRSB215_0.5-3	Solid	160-1863412	160-36995-A-25	Soil jar 4oz	METALS	Mazariegos, Leonel I	I	160-190707	01/29/20 10:50
160-36995	25	WRSB215_0.5-3	Solid	160-1863412	160-36995-A-25	Soil jar 4oz	2-3	Domalewski, Ryan I	I	160-190033	01/20/20 08:37
160-36995	25	WRSB215_0.5-3	Solid	160-1863412	160-36995-A-25	Soil jar 4oz	RAD	Domalewski, Ryan I	I	160-190030	01/20/20 07:05
160-36995	25	WRSB215_0.5-3	Solid	160-1863413	160-36995-B-25	Plastic Bag - 500g	Pre-Prep	Geer, Matthew L I	I	160-189956	01/16/20 15:15
160-36995	26	WRSB215_3-6	Solid	160-1863414	160-36995-A-26	Soil jar 4oz	2-3	Mazariegos, Leonel I	I	160-190770	01/30/20 13:07
160-36995	26	WRSB215_3-6	Solid	160-1863414	160-36995-A-26	Soil jar 4oz	METALS	Mazariegos, Leonel I	I	160-190707	01/29/20 10:50
160-36995	26	WRSB215_3-6	Solid	160-1863414	160-36995-A-26	Soil jar 4oz	2-3	Domalewski, Ryan I	I	160-190033	01/20/20 08:37
160-36995	26	WRSB215_3-6	Solid	160-1863414	160-36995-A-26	Soil jar 4oz	RAD	Domalewski, Ryan I	I	160-190030	01/20/20 07:05
160-36995	26	WRSB215_3-6	Solid	160-1863415	160-36995-B-26	Plastic Bag - 500g	Pre-Prep	Geer, Matthew L I	I	160-189956	01/16/20 15:15
160-36995	27	WRSB215_6-15	Solid	160-1863416	160-36995-A-27	Soil jar 4oz	2-3	Mazariegos, Leonel I	I	160-190770	01/30/20 13:07
160-36995	27	WRSB215_6-15	Solid	160-1863416	160-36995-A-27	Soil jar 4oz	METALS	Mazariegos, Leonel I	I	160-190707	01/29/20 10:50
160-36995	27	WRSB215_6-15	Solid	160-1863416	160-36995-A-27	Soil jar 4oz	2-3	Domalewski, Ryan I	I	160-190033	01/20/20 08:37
160-36995	27	WRSB215_6-15	Solid	160-1863416	160-36995-A-27	Soil jar 4oz	RAD	Domalewski, Ryan I	I	160-190030	01/20/20 07:05
160-36995	27	WRSB215_6-15	Solid	160-1863417	160-36995-B-27	Plastic Bag - 500g	Pre-Prep	Geer, Matthew L I	I	160-189956	01/16/20 15:15

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METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 160-36995-1

SDG No.:

Batch Number: 458513 Batch Start Date: 01/29/20 11:13 Batch Analyst: Mazariegos, Leonel A

Batch Method: 3050B Batch End Date: 01/29/20 16:36

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MPREP1-A 00004	MPREP1-B 00004	MPREP2 00022	
MB 160-458513/1		3050B, 6020A		0.5148 g	50 mL				
LCS 160-458513/2		3050B, 6020A		0.5074 g	50 mL	0.25 mL	0.25 mL	0.25 mL	
160-36995-A-1	WRSB225_0-0.5	3050B, 6020A	T	0.5576 g	50 mL				
160-36995-A-2	WRSB225_0.5-3	3050B, 6020A	T	0.5651 g	50 mL				
160-36995-A-3	WRSB225_3-6	3050B, 6020A	T	0.5617 g	50 mL				
160-36995-A-4	WRSB225_6-15	3050B, 6020A	T	0.5763 g	50 mL				
160-36995-A-5	WRSB221_0-0.5	3050B, 6020A	T	0.5249 g	50 mL				
160-36995-A-6	WRSB221_0.5-3	3050B, 6020A	T	0.5543 g	50 mL				
160-36995-A-7	WRSB221_3-6	3050B, 6020A	T	0.5559 g	50 mL				
160-36995-A-8	WRSB221_6-15	3050B, 6020A	T	0.5018 g	50 mL				
160-36995-A-9	WRSB214_0-0.5	3050B, 6020A	T	0.5236 g	50 mL				
160-36995-A-10	WRSB214_0.5-3	3050B, 6020A	T	0.5103 g	50 mL				
160-36995-A-10 DU	WRSB214_0.5-3	3050B, 6020A	T	0.5097 g	50 mL				
160-36995-A-10 MS	WRSB214_0.5-3	3050B, 6020A	T	0.5553 g	50 mL	0.25 mL	0.25 mL	0.25 mL	
160-36995-A-10 MSD	WRSB214_0.5-3	3050B, 6020A	T	0.5275 g	50 mL	0.25 mL	0.25 mL	0.25 mL	
160-36995-A-11	WRSB214_3-6	3050B, 6020A	T	0.5736 g	50 mL				
160-36995-A-12	WRSB214_6-15	3050B, 6020A	T	0.5624 g	50 mL				
160-36995-A-13	WRSB213_0-0.5	3050B, 6020A	T	0.5307 g	50 mL				
160-36995-A-14	WRSB213_0.5-3	3050B, 6020A	T	0.5245 g	50 mL				
160-36995-A-15	WRSB213_3-6	3050B, 6020A	T	0.5454 g	50 mL				
160-36995-A-16	WRSB213_6-15	3050B, 6020A	T	0.5280 g	50 mL				
160-36995-A-17	WRSB213-FD_6-15	3050B, 6020A	T	0.5253 g	50 mL				
160-36995-A-18	WRSB216_0-0.5	3050B, 6020A	T	0.5286 g	50 mL				
160-36995-A-19	WRSB216_0.5-3	3050B, 6020A	T	0.5280 g	50 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 160-36995-1

SDG No.: _____

Batch Number: 458513Batch Start Date: 01/29/20 11:13Batch Analyst: Mazariegos, Leonel ABatch Method: 3050BBatch End Date: 01/29/20 16:36

Batch Notes	
Balance ID	27150420
Blank Soil Lot Number	25438819
Temperature - Corrected - End	B7: 94.6 Degrees C
Temperature - Corrected - Start	B5: 94.5 Degrees C
Digestion End Time	01/29/2020 16:04
Digestion Start Time	01/29/2020 13:34
Digestion Unit ID	HOTBLOCK 4
Digestion Tube/Cup ID	344749-4653
Hydrogen Peroxide ID	1852964
Hydrochloric Acid ID	1854878
Nitric Acid ID	1854884, 1863531
Pipette/Syringe/Dispenser ID	MET-12
Analyst ID - Spike Analyst	LAM
Sufficient Volume for Batch QC	YES
Thermometer ID	160322347

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 160-36995-1

SDG No.:

Batch Number: 458514

Batch Start Date: 01/29/20 11:14

Batch Analyst: Mazariegos, Leonel A

Batch Method: 3050B

Batch End Date: 01/29/20 16:36

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MPREP1-A 00004	MPREP1-B 00004	MPREP2 00022	PR_LCSSRM 00024
MB 160-458514/1		3050B, 6020A		0.5394 g	50 mL				
LCS 160-458514/2		3050B, 6020A		0.5518 g	50 mL	0.25 mL	0.25 mL	0.25 mL	
LCSSRM 160-458514/3		3050B, 6020A		0.5444 g	50 mL				0.5444 g
160-36995-A-20	WRSB216_3-6	3050B, 6020A	T	0.5339 g	50 mL				
160-36995-A-20 DU	WRSB216_3-6	3050B, 6020A	T	0.5667 g	50 mL				
160-36995-A-20 MS	WRSB216_3-6	3050B, 6020A	T	0.5287 g	50 mL	0.25 mL	0.25 mL	0.25 mL	
160-36995-A-20 MSD	WRSB216_3-6	3050B, 6020A	T	0.5357 g	50 mL	0.25 mL	0.25 mL	0.25 mL	
160-36995-A-21	WRSB216_6-15	3050B, 6020A	T	0.5710 g	50 mL				
160-36995-A-22	WRSB208_136.5-14 1.5	3050B, 6020A	T	0.5666 g	50 mL				
160-36995-A-23	WRSB208_146.5-15 1.5	3050B, 6020A	T	0.5507 g	50 mL				
160-36995-A-24	WRSB215_0-0.5	3050B, 6020A	T	0.5265 g	50 mL				
160-36995-A-25	WRSB215_0.5-3	3050B, 6020A	T	0.5173 g	50 mL				
160-36995-A-26	WRSB215_3-6	3050B, 6020A	T	0.5141 g	50 mL				
160-36995-A-27	WRSB215_6-15	3050B, 6020A	T	0.5601 g	50 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 160-36995-1

SDG No.:

Batch Number: 458514Batch Start Date: 01/29/20 11:14Batch Analyst: Mazariegos, Leonel ABatch Method: 3050BBatch End Date: 01/29/20 16:36

Batch Notes	
Balance ID	27150420
Blank Soil Lot Number	25438819
Temperature - Corrected - End	B7: 94.6 Degrees C
Temperature - Corrected - Start	B5: 94.5 Degrees C
Digestion End Time	01/29/2020 16:04
Digestion Start Time	01/29/2020 13:34
Digestion Unit ID	HOTBLOCK 4
Digestion Tube/Cup ID	344749-4653
Hydrogen Peroxide ID	1852964
Hydrochloric Acid ID	1854878
Nitric Acid ID	1854884, 1863531
Pipette/Syringe/Dispenser ID	MET-12
Analyst ID - Spike Analyst	LAM
Sufficient Volume for Batch QC	YES
Thermometer ID	160322347

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 160-36995-1

SDG No.:

Batch Number: 457226

Batch Start Date: 01/20/20 06:59

Batch Analyst: Domalewski, Ryan J

Batch Method: Moisture

Batch End Date: 01/21/20 06:59

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
160-36995-A-1	WRSB225_0-0.5	Moisture	T	1.0747 g	11.3261 g	10.4085 g			
160-36995-A-2	WRSB225_0.5-3	Moisture	T	1.0587 g	11.1398 g	10.5682 g			
160-36995-A-3	WRSB225_3-6	Moisture	T	1.0606 g	11.2006 g	10.6132 g			
160-36995-A-4	WRSB225_6-15	Moisture	T	1.0590 g	11.4605 g	10.8466 g			
160-36995-A-5	WRSB221_0-0.5	Moisture	T	1.0657 g	11.2625 g	10.8430 g			
160-36995-A-6	WRSB221_0.5-3	Moisture	T	1.0691 g	11.1912 g	10.8328 g			
160-36995-A-7	WRSB221_3-6	Moisture	T	1.0723 g	11.4896 g	11.0651 g			
160-36995-A-8	WRSB221_6-15	Moisture	T	1.0689 g	11.3339 g	10.9682 g			
160-36995-A-9	WRSB214_0-0.5	Moisture	T	1.0685 g	11.6086 g	11.0843 g			
160-36995-A-10	WRSB214_0.5-3	Moisture	T	1.0600 g	11.1958 g	10.6258 g			
160-36995-A-10	WRSB214_0.5-3 DU	Moisture	T	1.0857 g	11.6594 g	11.0378 g			
160-36995-A-11	WRSB214_3-6	Moisture	T	1.0643 g	11.1716 g	10.7292 g			
160-36995-A-12	WRSB214_6-15	Moisture	T	1.0533 g	11.7230 g	11.2353 g			
160-36995-A-13	WRSB213_0-0.5	Moisture	T	1.0673 g	11.0972 g	10.5302 g			
160-36995-A-14	WRSB213_0.5-3	Moisture	T	1.0334 g	11.6423 g	11.0583 g			
160-36995-A-15	WRSB213_3-6	Moisture	T	1.0304 g	11.3380 g	10.7879 g			
160-36995-A-16	WRSB213_6-15	Moisture	T	1.0667 g	11.4628 g	10.9325 g			
160-36995-A-17	WRSB213-FD_6-15	Moisture	T	1.0474 g	11.3692 g	10.8264 g			
160-36995-A-18	WRSB216_0-0.5	Moisture	T	1.0429 g	11.4842 g	10.9396 g			
160-36995-A-19	WRSB216_0.5-3	Moisture	T	1.0372 g	11.1649 g	10.7022 g			
160-36995-A-20	WRSB216_3-6	Moisture	T	1.0495 g	11.6237 g	10.9959 g			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 160-36995-1

SDG No.: _____

Batch Number: 457226Batch Start Date: 01/20/20 06:59Batch Analyst: Domalewski, Ryan JBatch Method: MoistureBatch End Date: 01/21/20 06:59

Batch Notes	
Balance ID	1119252511
Date samples were placed in the oven	01/20/2020
Oven Temp In	104 Degrees C
Time samples were place in the oven	08:22
Date samples were removed from oven	01/21/2020
Oven Temp Out	104 Degrees C
Time Samples were removed from oven	06:22
Oven ID	OC
Thermometer ID	A142186

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 160-36995-1

SDG No.:

Batch Number: 457230

Batch Start Date: 01/20/20 07:37

Batch Analyst: Domalewski, Ryan J

Batch Method: Moisture

Batch End Date: 01/21/20 06:59

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
160-36995-A-21	WRSB216_6-15	Moisture	T	1.0373 g	11.3609 g	10.6686 g			
160-36995-A-21 DU	WRSB216_6-15	Moisture	T	1.0596 g	11.3694 g	10.7039 g			
160-36995-A-22 1.5	WRSB208_136.5-14	Moisture	T	1.0494 g	11.4710 g	10.9833 g			
160-36995-A-23 1.5	WRSB208_146.5-15	Moisture	T	1.0632 g	11.3288 g	11.0641 g			
160-36995-A-24	WRSB215_0-0.5	Moisture	T	1.0282 g	11.8543 g	11.3382 g			
160-36995-A-25	WRSB215_0.5-3	Moisture	T	1.0605 g	11.7398 g	11.2002 g			
160-36995-A-26	WRSB215_3-6	Moisture	T	1.0578 g	11.9519 g	11.3938 g			
160-36995-A-27	WRSB215_6-15	Moisture	T	1.0408 g	11.1517 g	10.7068 g			

Batch Notes

Balance ID	1119252511
Date samples were placed in the oven	01/20/2020
Oven Temp In	104 Degrees C
Time samples were placed in the oven	08:22
Date samples were removed from oven	01/21/2020
Oven Temp Out	104 Degrees C
Time Samples were removed from oven	06:22
Oven ID	OC
Thermometer ID	A142186

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

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GAMMA SPECTROSCOPY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 160-36995-1

SDG No.:

Batch Number: 457261

Batch Start Date: 01/20/20 10:58

Batch Analyst: Curtright, Logan T

Batch Method: Fill_Geo-21

Batch End Date: 01/20/20 11:37

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	GrossWeight	InitialAmount	IngDecDate1	IngDecDate3	Geometry
MB 160-457261/1		Fill_Geo-21, 901.1				291.18 g	01/20/2020 11:37	02/10/2020 11:37	Tuna Can
LCS 160-457261/2		Fill_Geo-21, 901.1				341.9 g	01/20/2020 11:37	02/10/2020 11:37	Tuna Can
160-36995-B-1-A	WRSB225_0-0.5	Fill_Geo-21, 901.1	T	46.2 g	424.6 g	378.4 g	01/20/2020 11:37	02/10/2020 11:37	Tuna Can
160-36995-B-2-A	WRSB225_0.5-3	Fill_Geo-21, 901.1	T	46.3 g	425.2 g	378.9 g	01/20/2020 11:37	02/10/2020 11:37	Tuna Can
160-36995-B-3-A	WRSB225_3-6	Fill_Geo-21, 901.1	T	45.9 g	442.8 g	396.9 g	01/20/2020 11:37	02/10/2020 11:37	Tuna Can
160-36995-B-4-A	WRSB225_6-15	Fill_Geo-21, 901.1	T	45.9 g	407.8 g	361.9 g	01/20/2020 11:37	02/10/2020 11:37	Tuna Can
160-36995-B-5-A	WRSB221_0-0.5	Fill_Geo-21, 901.1	T	46.2 g	417.4 g	371.2 g	01/20/2020 11:37	02/10/2020 11:37	Tuna Can
160-36995-B-6-A	WRSB221_0.5-3	Fill_Geo-21, 901.1	T	45.8 g	474.8 g	429 g	01/20/2020 11:37	02/10/2020 11:37	Tuna Can
160-36995-B-7-A	WRSB221_3-6	Fill_Geo-21, 901.1	T	46.2 g	454.4 g	408.2 g	01/20/2020 11:37	02/10/2020 11:37	Tuna Can
160-36995-B-8-A	WRSB221_6-15	Fill_Geo-21, 901.1	T	46.3 g	458.6 g	412.3 g	01/20/2020 11:37	02/10/2020 11:37	Tuna Can
160-36995-B-9-A	WRSB214_0-0.5	Fill_Geo-21, 901.1	T	46.2 g	447.3 g	401.1 g	01/20/2020 11:37	02/10/2020 11:37	Tuna Can
160-36995-B-10-A	WRSB214_0.5-3	Fill_Geo-21, 901.1	T	46.1 g	426.2 g	380.1 g	01/20/2020 11:37	02/10/2020 11:37	Tuna Can
160-36995-B-10-D DU	WRSB214_0.5-3	Fill_Geo-21, 901.1	T	46.1 g	426.2 g	380.1 g	01/20/2020 11:37	02/10/2020 11:37	Tuna Can
160-36995-B-11-A	WRSB214_3-6	Fill_Geo-21, 901.1	T	46.3 g	444.5 g	398.2 g	01/20/2020 11:37	02/10/2020 11:37	Tuna Can
160-36995-B-12-A	WRSB214_6-15	Fill_Geo-21, 901.1	T	46.0 g	470.7 g	424.7 g	01/20/2020 11:37	02/10/2020 11:37	Tuna Can

Lab Sample ID	Client Sample ID	Method Chain	Basis	Tuna Can LCS 00009					
MB 160-457261/1		Fill_Geo-21, 901.1							
LCS 160-457261/2		Fill_Geo-21, 901.1		# g					
160-36995-B-1-A	WRSB225_0-0.5	Fill_Geo-21, 901.1	T						
160-36995-B-2-A	WRSB225_0.5-3	Fill_Geo-21, 901.1	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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GAMMA SPECTROSCOPY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 160-36995-1

SDG No.:

Batch Number: 457261 Batch Start Date: 01/20/20 10:58 Batch Analyst: Curtright, Logan T

Batch Method: Fill_Geo-21 Batch End Date: 01/20/20 11:37

Lab Sample ID	Client Sample ID	Method Chain	Basis	Tuna Can LCS 00009					
160-36995-B-3-A	WRSB225_3-6	Fill_Geo-21, 901.1	T						
160-36995-B-4-A	WRSB225_6-15	Fill_Geo-21, 901.1	T						
160-36995-B-5-A	WRSB221_0-0.5	Fill_Geo-21, 901.1	T						
160-36995-B-6-A	WRSB221_0.5-3	Fill_Geo-21, 901.1	T						
160-36995-B-7-A	WRSB221_3-6	Fill_Geo-21, 901.1	T						
160-36995-B-8-A	WRSB221_6-15	Fill_Geo-21, 901.1	T						
160-36995-B-9-A	WRSB214_0-0.5	Fill_Geo-21, 901.1	T						
160-36995-B-10-A	WRSB214_0.5-3	Fill_Geo-21, 901.1	T						
160-36995-B-10-D DU	WRSB214_0.5-3	Fill_Geo-21, 901.1	T						
160-36995-B-11-A	WRSB214_3-6	Fill_Geo-21, 901.1	T						
160-36995-B-12-A	WRSB214_6-15	Fill_Geo-21, 901.1	T						

Batch Notes

Balance ID	1121432711
SOP Number	ST-RC-0025

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GAMMA SPECTROSCOPY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 160-36995-1

SDG No.: _____

Batch Number: 457271 Batch Start Date: 01/20/20 11:41 Batch Analyst: Curtright, Logan T

Batch Method: Fill_Geo-21 Batch End Date: 01/20/20 12:06

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	GrossWeight	InitialAmount	IngDecDate1	IngDecDate3	Geometry
MB 160-457271/1		Fill_Geo-21, 901.1				291.18 g	01/20/2020 12:05	02/10/2020 12:05	Tuna Can
LCS 160-457271/2		Fill_Geo-21, 901.1				341.9 g	01/20/2020 12:05	02/10/2020 12:05	Tuna Can
160-36995-B-13-A	WRSB213_0-0.5	Fill_Geo-21, 901.1	T	46.5 g	455.2 g	408.7000 g	01/20/2020 12:05	02/10/2020 12:05	Tuna Can
160-36995-B-13-A DU	WRSB213_0-0.5	Fill_Geo-21, 901.1	T	46.5 g	455.2 g	408.7 g	01/20/2020 12:05	02/10/2020 12:05	Tuna Can
160-36995-B-14-A	WRSB213_0.5-3	Fill_Geo-21, 901.1	T	46.6 g	441.9 g	395.3 g	01/20/2020 12:05	02/10/2020 12:05	Tuna Can
160-36995-B-15-A	WRSB213_3-6	Fill_Geo-21, 901.1	T	46.4 g	474.7 g	428.3 g	01/20/2020 12:05	02/10/2020 12:05	Tuna Can
160-36995-B-16-A	WRSB213_6-15	Fill_Geo-21, 901.1	T	46.3 g	438.2 g	391.9 g	01/20/2020 12:05	02/10/2020 12:05	Tuna Can
160-36995-B-17-A	WRSB213-FD_6-15	Fill_Geo-21, 901.1	T	46.5 g	460.3 g	413.8 g	01/20/2020 12:05	02/10/2020 12:05	Tuna Can
160-36995-B-18-A	WRSB216_0-0.5	Fill_Geo-21, 901.1	T	46.3 g	461.9 g	415.6 g	01/20/2020 12:05	02/10/2020 12:05	Tuna Can
160-36995-B-19-A	WRSB216_0.5-3	Fill_Geo-21, 901.1	T	45.9 g	445.4 g	399.5 g	01/20/2020 12:05	02/10/2020 12:05	Tuna Can
160-36995-B-20-A	WRSB216_3-6	Fill_Geo-21, 901.1	T	46.5 g	450.4 g	403.9 g	01/20/2020 12:05	02/10/2020 12:05	Tuna Can
160-36995-B-21-A	WRSB216_6-15	Fill_Geo-21, 901.1	T	46.5 g	445.6 g	399.1 g	01/20/2020 12:05	02/10/2020 12:05	Tuna Can
160-36995-B-22-A	WRSB208_136.5-14 1.5	Fill_Geo-21, 901.1	T	46.4 g	434.0 g	387.6 g	01/20/2020 12:05	02/10/2020 12:05	Tuna Can
160-36995-B-23-A	WRSB208_146.5-15 1.5	Fill_Geo-21, 901.1	T	46.5 g	440.2 g	393.7 g	01/20/2020 12:05	02/10/2020 12:05	Tuna Can
160-36995-B-24-A	WRSB215_0-0.5	Fill_Geo-21, 901.1	T	46.4 g	440.4 g	394 g	01/20/2020 12:05	02/10/2020 12:05	Tuna Can
160-36995-B-25-A	WRSB215_0.5-3	Fill_Geo-21, 901.1	T	46.3 g	435.6 g	389.3 g	01/20/2020 12:05	02/10/2020 12:05	Tuna Can
160-36995-B-26-A	WRSB215_3-6	Fill_Geo-21, 901.1	T	46.6 g	454.5 g	407.9 g	01/20/2020 12:05	02/10/2020 12:05	Tuna Can
160-36995-B-27-A	WRSB215_6-15	Fill_Geo-21, 901.1	T	46.4 g	435.1 g	388.7 g	01/20/2020 12:05	02/10/2020 12:05	Tuna Can

Lab Sample ID	Client Sample ID	Method Chain	Basis	Tuna Can LCS 00009					
MB 160-457271/1		Fill_Geo-21, 901.1							

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GAMMA SPECTROSCOPY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 160-36995-1

SDG No.: _____

Batch Number: 457271 Batch Start Date: 01/20/20 11:41 Batch Analyst: Curtright, Logan T

Batch Method: Fill_Geo-21 Batch End Date: 01/20/20 12:06

Lab Sample ID	Client Sample ID	Method Chain	Basis	Tuna Can LCS 00009					
LCS 160-457271/2		Fill_Geo-21, 901.1		# g					
160-36995-B-13- A	WRSB213_0-0.5	Fill_Geo-21, 901.1	T						
160-36995-B-13- A DU	WRSB213_0-0.5	Fill_Geo-21, 901.1	T						
160-36995-B-14- A	WRSB213_0.5-3	Fill_Geo-21, 901.1	T						
160-36995-B-15- A	WRSB213_3-6	Fill_Geo-21, 901.1	T						
160-36995-B-16- A	WRSB213_6-15	Fill_Geo-21, 901.1	T						
160-36995-B-17- A	WRSB213-FD_6-15	Fill_Geo-21, 901.1	T						
160-36995-B-18- A	WRSB216_0-0.5	Fill_Geo-21, 901.1	T						
160-36995-B-19- A	WRSB216_0.5-3	Fill_Geo-21, 901.1	T						
160-36995-B-20- A	WRSB216_3-6	Fill_Geo-21, 901.1	T						
160-36995-B-21- A	WRSB216_6-15	Fill_Geo-21, 901.1	T						
160-36995-B-22- A	WRSB208_136.5-14 1.5	Fill_Geo-21, 901.1	T						
160-36995-B-23- A	WRSB208_146.5-15 1.5	Fill_Geo-21, 901.1	T						
160-36995-B-24- A	WRSB215_0-0.5	Fill_Geo-21, 901.1	T						
160-36995-B-25- A	WRSB215_0.5-3	Fill_Geo-21, 901.1	T						
160-36995-B-26- A	WRSB215_3-6	Fill_Geo-21, 901.1	T						
160-36995-B-27- A	WRSB215_6-15	Fill_Geo-21, 901.1	T						

Batch Notes

Balance ID	1121432711
SOP Number	ST-RC-0025

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GAMMA SPECTROSCOPY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 160-36995-1

SDG No.:

Batch Number: 457271Batch Start Date: 01/20/20 11:41Batch Analyst: Curtright, Logan TBatch Method: Fill_Geo-21Batch End Date: 01/20/20 12:06

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.